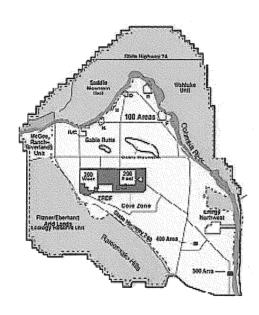
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# Hanford Facility Resource Conservation and Recovery Act Permit, Dangerous Waste Portion Revision 8B

For the Treatment, Storage, and Disposal of Dangerous Waste



**Washington State Department of Ecology Nuclear Waste Program** 

August 2006

Revision Number: 8B

For additional copies of this permit contact:

Department of Ecology 3100 Port of Benton Blvd. Richland, WA 99354-1670 (509) 372-7950

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Department of Ecology Headquarters telecommunications device for the deaf (TDD) number is: (360) 407-6006

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## UNIT STATUS TABLE

| PERMIT REVISION                                     | REVISION DATE     |                          |                                    | UNI   | TS INCORPORATED  |  |
|---|-------------------|--------------------------|------------------------------------|---|--|--|
| Permit Revision 0                                   | 8/29/94           | 616 NDWS                 | F, 305-B Stor                      | age Faci  | lity, 183-H SEB, 300 ASE, 2727-S NRDWSF                    |  |
| Pormit Povision 1 4/29/05 Simulated H               |                   |                          |                                    | High-Level Waste Slurry T&S Unit, 218-E-9 Borrow Pit Demo Site, a Ash Pit Demo Site, 2101-M Pond, 216-B-3 Expansion Ponds |  |  |
| Permit Revision 2                                   | 8/29/95           |                          | atrol Academy<br>etion Facility    | Demoliti  | on Site, 105-DR Large Sodium Fire Facility,                |  |
| Permit Revision 3                                   | 11/26/96          | 4843 Alkal<br>303-K Stor | i Metal Storage<br>age Facility, 3 | e Facility<br>00 APT  | , 3718-F Alkali Metal Treatment & Storage Facility,        |  |
| Permit Revision 4                                   | 1/28/98           | PUREX St                 | orage Tunnels                      | , LERF 8  | 200 Area ETF, 242-A Evaporator, 325 HWTUs                  |  |
| Permit Revision 5                                   | 5/18/99           |                          | ds, 1301-N &<br>ent, 1324-NA       |   | iquid Waste Disposal Facilities, 1324-N Surface<br>on Pond |  |
| Permit Revision 6                                   | 3/28/00           | <del></del>              | dition II.Y, Co                    |   |  |  |
| Permit Revision 7                                   | 2/27/01           | Waste Tre                | atment and Im                      | mobilizat   | tion Plant, 300 Area Waste Acid Treatment System           |  |
| Permit Revision 8                                   | 9/23/04           | No new un                | its, modificatio                   | n update  | es .   |  |
| Permit Revision 8A                                  | 3/6/06            | Integrated               | Disposal Facil                     | ity   |  |  |
| Permit Revision 8B                                  |                   | 331-C Stor               | age Unit, PFP                      | Treatme   | ent Unit, 241-Z treatment & Storage Tanks                  |  |
| UNIT  |                   |                          | Permit Re                          | vision  | Comments/History   |  |
| UNII  |                   | *                        | Incorporated                       | Retired   | Comments/mstory  |  |
| PART III, OPERATING L                               | JNITS             |                          |                                    |   |  |  |
| 616 NDWSF   |                   |                          | Rev 0                              | Rev 7   | Clean closed, 9/5/01                                       |  |
| 242-A Evaporator                                    |                   |                          | Rev 4                              |   |  |  |
| 305-B Storage Facility                              |                   |                          | Rev 0                              |   |  |  |
| 325 HWTUs   |                   |                          | Rev 4                              |   | RLWT procedural closure, 9/04                              |  |
| LERF/200 Area ETF                                   |                   |                          | Rev 4                              |   | Tite VI procodurar orocuro, oro                            |  |
| PUREX Storage Tunnels                               |                   |                          | Rev 3                              |   |  |  |
|   |                   |                          | Rev 7                              |   | Permitted unit under construction                          |  |
| Waste Treatment and Immobilization Plant            |                   |                          |                                    |   | Fermitted unit under construction                          |  |
| Integrated Disposal Facility                        |                   |                          | Rev. 8A                            | <u> </u>  |  |  |
| 331-C Storage Unit PART V, UNDERGOING CLOSURE UNITS |                   |                          | Rev. 8B                            |   |  |  |
|   | CLUSURE UNITS     |                          | T = -                              | Ι   | To. 1 1 2 2 2 2  |  |
| 100-D Ponds   |                   | •                        | Rev 5                              |   | Clean Closed, 8/9/99                                       |  |
| 105 DR Large Sodium F                               |                   |                          | Rev 2                              | Rev 6   | Clean Closed, 7/1/04                                       |  |
| 1301-N Liquid Waste Dis                             |                   |                          | Rev 5                              |   |  |  |
| 1324-N Surface Impoundment                          |                   |                          | Rev 5                              |   |  |  |
| 1324-NA Percolation Pond                            |                   |                          | Rev 5                              |   |  |  |
| 1325-N Liquid Waste Disposal Facility               |                   |                          | Rev 5                              | <u> </u>  |  |  |
| 200 West Area Ash Pit Demo Site                     |                   |                          | Rev 1                              |   | Clean Closed, 11/28/95                                     |  |
| 2101-M Pond   |                   |                          | Rev 1                              | Rev 6   | Clean Closed, 11/28/95                                     |  |
| 216-B-3 Expansion Ponds                             |                   |                          | Rev 1                              | Rev 6   | Clean Closed, 7/31/95                                      |  |
| 218-E-8 Borrow Demolition Site                      |                   |                          | Rev 1                              | Rev 6   | Clean Closed, 11/28/95                                     |  |
| 2727-S Storage Facility                             |                   |                          | Rev 0                              | Rev 6   | Clean Closed, 7/31/95                                      |  |
| 300 Area Solvent Evaporator                         |                   |                          | Rev 0                              | Rev 6   | Clean Closed, 7/31/95                                      |  |
| 300 Area WATS                                       |                   |                          | Rev 6                              | Rev 7   | Modified Closed, 1/21/05.                                  |  |
| 303-K Storage Facility                              |                   |                          | Rev 4                              | Rev 6   | Clean Closed, 7/22/02                                      |  |
| 304 Concretion Facility                             |                   |                          | Rev 2                              | Rev 6   | Clean Closed, 1/21/96                                      |  |
| 311 Tanks   |                   |                          | Rev 6                              | 1   | Clean Closed, 5/20/02. 300 Area WATS Part A                |  |
| 3718-F Alkali Metal Treatment /Storage              |                   |                          | Rev 3                              | <del>                                     </del>  | Clean Closed, 8/4/98                                       |  |
| 4843 Alkali Metal Storage Facility                  |                   |                          | Rev 3                              | <del> </del>  | Clean Closed, 4/14/97                                      |  |
| Hanford Patrol Academy Demo Site                    |                   |                          | Rev 2                              |   | Clean Closed, 11/28/95                                     |  |
| Simulated High Level Waste Slurry                   |                   |                          | Rev 1                              |   | Clean Closed, 9/6/95                                       |  |
|   |                   |                          | Rev. 8B                            | 1.000   | Clean Closed, 2/8/05.                                      |  |
| DED Treatment   Init /UA                            |                   |                          |                                    |   |  |  |
| PFP Treatment Unit (HA                              | rage Tanks        |                          |                                    |   | ī.   |  |
| 241-Z Treatment and Sto                             |                   |                          | Rev. 8B                            |   | 1  |  |
| 241-Z Treatment and Sto<br>PART VI, POSTCLOSUR      | REUNITS           |                          |                                    |   |  |  |
| 241-Z Treatment and Sto                             | RE UNITS<br>Basin |                          | Rev 4                              |   |  |  |

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| 216-U-12 Crib  | N/A | N/A | Closed          |
|--|-----|-----|-----------------|
| 221-T Test Facility  | N/A | N/A | Closed, 2/22/99 |
| 2727-WA SRE Sodium Storage Bldg  | N/A | N/A | Closed, 2/22/99 |
| 324 Pilot Plant  | N/A | N/A | Closed, 6/9/97  |
| 332 Storage Facility   | N/A | N/A | Closed, 4/21/97 |
| 437 MASF   | N/A | N/A | Closed, 9/11/03 |
| Biological Treatment Test Facilities   | N/A | N/A | Closed,12/10/96 |
| Physical & Chemical Treatment & Test   | N/A | N/A | Closed, 5/13/96 |
| Sodium Storage/Sodium Reaction   | N/A | N/A | Closed, 9/17/03 |
| Thermal Treatment Test Facilities  | N/A | N/A | Closed, 5/13/96 |
| TO BE INCORPORATED   |     |     |                 |
| 1706-KE Waste Treatment System   |     |     |                 |
| 207-A South Retention Basin  |     |     |                 |
| 216-A-10 Crib  |     |     | ,               |
| 216-A-29 Ditch   |     |     |                 |
| 216-A-36B Crib   |     |     |                 |
| 216-A-37-1 Crib  |     |     |                 |
| 216-B-3 Main Pond  |     |     |                 |
| 216-B-63 Trench  |     |     |                 |
| 216-S-10 Pond & Ditch  |     |     |                 |
| 222-S Laboratory Complex   |     |     |                 |
| 224-T TRUSAF   |     |     |                 |
| 241-CX Tank System   | -   |     |                 |
| 303-M Oxide Facility   |     |     |                 |
| 331-C Storage Unit   |     |     |                 |
| 600 Area Purgewater Storage and Treatment Facility (Modu Tanks)                |     |     |                 |
| Central Waste Complex (CWC)  |     |     |                 |
| Contact Handled Transuranic Mixed Waste Packaging and Interim Storage Facility |     |     |                 |
| DST System/204-AR Waste Unloading Station                                      |     |     |                 |
| Grout Treatment Facility   |     |     |                 |
| Hexone Storage & Treatment Facility  |     |     |                 |
| IHLW Interim Storage/CSB   |     |     |                 |
| LLBG   |     |     |                 |
| NRDWL  |     |     |                 |
| SST System   |     |     |                 |
| T Plant Complex  |     |     |                 |
| WESF   |     |     |                 |
| WRAP Facility  |     |     |                 |
| TRANSITION UNDER TPA SECTION 8 (Will not be incorporated into Permit)          |     |     |                 |
| B Plant Complex  |     |     |                 |
| PUREX Plant  |     |     |                 |

Expiration Date: September 27, 2004 Permit Number: WA7890008967 Page 1 of 50 Revision Number: 8B 1 DANGEROUS WASTE PORTION OF THE RESOURCE CONSERVATION AND RECOVERY ACT PERMIT 2 FOR THE TREATMENT, STORAGE, AND DISPOSAL OF DANGEROUS WASTE 3 4 Washington State Department of Ecology 5 Nuclear Waste Program 6 3100 Port of Benton Blvd 7 Richland, Washington 99352 8 Telephone: (509) 372-7950 9 Issued in accordance with the applicable provisions of the Hazardous Waste Management Act, Chapter 70.105 RCW, and the regulations promulgated there under in Chapter 173-303 WAC. 10 11 **ISSUED TO:** U.S. Department of Energy U.S. Department of Energy Office of River Protection Richland Operations Office (Owner/Operator) (Owner/Operator) P.O. Box 450 P.O. Box 550 Richland, Washington 99352 Richland, Washington 99352 Telephone: (509) 376-6677 Telephone: (509) 376-7395 Fluor Hanford, Inc. Bechtel National, Inc. (Co-Operator) (Co-operator) 3000 George Washington Way P.O. Box 1000 Richland, Washington 99352 Richland, Washington 99352 Telephone: (509) 372-2886 CH2M HILL Hanford Group, Inc. Washington Closure Hanford LLC (Co-operator) (Co-operator) 2440 Stevens Center 3070 George Washington Way Richland, WA 99352 P.O. Box 1500 Richland, WA 99352 (509) 372-9951 (509) 373-1677 Pacific Northwest National Laboratory (Co-operator) P.O. Box 999 Richland, Washington 99352 Telephone: (509) 375-6600 This Permit as modified on August 22, 2006, will remain in effect through September 27, 2004, unless 12 revoked and reissued under WAC 173-303-830(3), terminated under WAC 173-303-830(5), or continued 13 in accordance with WAC 173-303-806(7). 14 **ISSUED BY:** 15 WASHINGTON STATE DEPARTMENT OF ECOLOGY 16

Date:

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Jane Hedges, Manager

Nuclear Waste Program, Department of Ecology

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### 1 LIST OF ATTACHMENTS 2 The following listed documents are attached in their entirety. However, only those portions of the attachments specified in Parts I through VI are enforceable conditions of this Permit and subject to the 3 permit modification requirements of Permit Condition I.C.3. Changes to portions of the attachments, 4 which are not subject to the permit modification process, will be addressed in accordance with Permit 5 6 Conditions I.E.8, I.E.11, I.E.13, I.E.15, through I.E.20, and I.E.22. Ecology has, as deemed necessary, modified specific language in these attachments. These modifications are described in the conditions 7 (Parts I through VI), and thereby supersede the language of the attachment. 8 9 Hanford Federal Facility Agreement and Consent Order, (as amended) Attachment 1 http://www.hanford.gov/tpa/coverpg.htm 10 Hanford Facility Legal Description, from Class <sup>1</sup>1 modification, dated 11 Attachment 2 January 7, 1999 12 Permit Applicability Matrix, dated March 2006 13 Attachment 3 Hanford Emergency Management Plan, DOE/RL-94-02 Revision 2, as amended and 14 Attachment 4 15 approved modifications Purgewater Management Plan, July 1990 16 Attachment 5 Hanford Well Maintenance and Inspection Plan, BHI-01265, Revision 0, May 1999 Attachment 6 17 Policy on Remediation of Existing Wells and Acceptance Criteria for RCRA and 18 Attachment 7 19 CERCLA, June 1990 616 Nonradioactive Dangerous Waste Storage Facility, retired during Revision 6 of 20 Attachment 8 the RCRA Permit 21 616 Nonradioactive Dangerous Waste Shipping Lists, retired during Revision 6 of 22 Attachment 9 23 the RCRA Permit 616 Nonradioactive Dangerous Waste Facility Description of Procedures, retired 24 Attachment 10 25 during Revision 5 of the RCRA Permit Attachment 11 183-H Solar Evaporation Basins Closure/Post-Closure Plan, retired during 26 Revision 6 of the RCRA Permit 27 Decommissioning Work Plan Concrete Sampling - 183-H Solar Evaporation Basins, 28 Attachment 12 29 retired during Revision 6 of the RCRA Permit Decommissioning Work Plan Core Drill Sampling - 183-H Solar Evaporation 30 Attachment 13 Basins (Phase I), retired during Revision 6 of the RCRA Permit 31 32 Attachment 14 183-H Solar Evaporation Basins Vadose Zone Sampling Plan, retired during Revision 6 of the RCRA Permit 33 Decommissioning Work Plan Berm Removal for 183-H Solar Evaporation Basins, 34 Attachment 15 35 retired during Revision 6 of the RCRA Permit 300 Area Solvent Evaporator Closure Plan, retired during Revision 6 of the RCRA 36 Attachment 16 Permit 37

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| 8 Attachment 21 200 West Ash Pit Demolition Site Closure Plan, retired during Revision RCRA Permit  | 6 of the      |
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| 11 Attachment 23 216-B-3 Expansion Ponds Closure Plans, retired during Revision 6 of the Permit   | e RCRA        |
| 13 Attachment 24 Hanford Patrol Academy Demolition Sites Closure Plan, retired during R<br>14 the RCRA Permit   | Revision 6 of |
| 15 Attachment 25 105-DR Large Sodium Fire Facility Closure Plan, retired during Revision RCRA Permit  | n 6 of the    |
| 17 Attachment 26 304 Concretion Facility Closure Plan, retired during Revision 6 of the Ro  | CRA Permit    |
| 18 Attachment 27 Permit Modification Schedule, retired during Revision 6 of the Permit  |               |
| 19 Attachment 28 PUREX Storage Tunnels, and approved modifications  |               |
| 20 Attachment 29 4843 Alkali Metal Storage Facility Closure Plan, retired during Revision RCRA Permit   | 6 of the      |
| 22 Attachment 30 3718-F Alkali Metal Treatment and Storage Facility Closure Plan, retired Revision 6 of the RCRA Permit   | d during      |
| 24 Attachment 31 300 Area Process Trenches, and approved modifications  |               |
| 25 Attachment 32 303-K Storage Facility Closure Plan, retired during Revision 6 of the RC   | RA Permit     |
| 26 Attachment 33 Hanford Facility Dangerous Waste Permit Application General Information DOE/RL-91-28, Revision 7, and approved modifications   | ion Portion,  |
| 28 Attachment 34 Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility approved modifications   | ility, and    |
| 30 Attachment 35 242-A Evaporator, and approved modifications   |               |
| 31 Attachment 36 325 Hazardous Waste Treatment Units, and approved modifications  |               |
| 32 Attachment 37 183-H Solar Evaporation Basins, and approved modifications   |               |

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| 1 2      | Attachment 38 | 303-K Storage Facility Sampling and Analysis Plan, retired during Revision 6 of the RCRA                                      |
|----------|---------------|---|
| 3<br>4   | Attachment 39 | Errata Sheet for the 303-K Storage Facility Sampling and Analysis Plan, retired during Revision 6 of the RCRA Permit          |
| 5        | Attachment 40 | 100-D Ponds, retired during Revision 6 of the RCRA Permit   |
| 6        | Attachment 41 | 1301-N & 1325-N Liquid Waste Disposal Facilities, and approved modifications  |
| 7<br>8   | Attachment 42 | 1324-N Surface Impoundment & 1324-NAPercolation Pond, and approved modifications  |
| 9        | Attachment 43 | Reserved.   |
| 10       | Attachment 44 | Reserved.   |
| 11       | Attachment 45 | Reserved.   |
| 12<br>13 | Attachment 46 | 300 Area Waste Acid Treatment System, retired during Revision 6 of the RCRA Permit  |
| 14       | Attachment 47 | 100-NR-1 and 100-NR-2 Operable Units, and approved modifications  |
| 15<br>16 | Attachment 48 | Engineering Evaluation/Cost Analysis for the 100-N Area Ancillary Facilities and Integration Plan, and approved modifications |
| 17 .     | Attachment 49 | Reserved.   |
| 18       | Attachment 50 | Reserved.   |
| 19       | Attachment 51 | Waste Treatment and Immobilization Plant, and approved modifications  |
| 20       | Attachment 52 | Integrated Disposal Facility, and approved modifications  |

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1 INTRODUCTION

2 Where information regarding treatment, management, and disposal of the radioactive source, byproduct

- 3 material, special nuclear material (as defined by the Atomic Energy Act of 1954, as amended) and/or the
- 4 radionuclide component of mixed waste has been incorporated into this permit, it is not incorporated for
- 5 the purpose of regulating the radiation hazards of such components under the authority of this permit or
- 6 chapter 70.105 RCW.
- 7 Pursuant to Chapter 70.105 Revised Code of Washington (RCW), the Hazardous Waste Management Act
- 8 (HWMA) of 1976, as amended, Chapter 70.105D RCW, the Model Toxics Control Act (MTCA), and
- 9 regulations promulgated there under by the Washington State Department of Ecology (hereafter called
- 10 Ecology), codified in Chapter 173-303 Washington Administrative Code (WAC), Dangerous Waste
- Regulations, a Dangerous Waste Permit is issued to the United States Department of Energy (USDOE) -
- Richland Operations Office (RL) and Office of River Protection (ORP), [owner/operator], and its
- contractors, Fluor Hanford, Inc. (FH), [co-operator], Pacific Northwest National Laboratory (PNNL),
- [co-operator], CH2M HILL Hanford Group, Inc. (CHG), [co-operator], Washington Closure Hanford,
- LLC (WCH), [co-operator], and Bechtel National, Incorporated (BNI), [co-operator], hereafter called the
- Permittees, for the treatment, storage, and disposal of dangerous waste at the Hanford Facility.
- 17 This Dangerous Waste Permit, issued in conjunction with the United States Environmental Protection
- 18 Agency's (hereafter called EPA) Hazardous and Solid Waste Amendments Portion of the Resource
- 19 Conservation and Recovery Act (RCRA) Permit for the Treatment, Storage, and Disposal (TSD) of
- 20 Hazardous Waste (HSWA Permit), constitutes the RCRA Permit for the Hanford Facility. Use of the
- 21 term "Permit" within the Dangerous Waste Permit will refer to the Dangerous Waste Permit, while use of
- the term "Permit" within the HSWA Permit, will refer to the HSWA Permit. Use of the same term in
- both the Dangerous Waste Permit and the HSWA Permit, will have the standard meaning associated with
- 24 the activities addressed by the permit in which the term is used. Such meanings will prevail, except
- where specifically stated otherwise.
- The Permittees will comply with all terms and conditions set forth in this Permit and those portions of the
- 27 Attachments that have been specifically incorporated into this Permit. When the Permit and the
- 28 Attachments (except Permit Attachment 1) conflict, the wording of the Permit will prevail. The Permit is
- 29 intended to be consistent with the terms and conditions of the Hanford Federal Facility Agreement and
- 30 Consent Order (HFFACO, Permit Attachment 1). The Permittees will also comply with all applicable
- 31 state regulations, including Chapter 173-303 WAC.
- 32 Applicable state regulations are those which are in effect on the date of issuance, or as specified in
- 33 subsequent modifications of this Permit. In addition, applicable state regulations include any self-
- 34 implementing statutory provisions and related regulations which, according to the requirements of the
- 35 HWMA, as amended, or other law(s), are automatically applicable to the Permittees' dangerous waste
- 36 management activities, notwithstanding the conditions of this Permit.
- 37 This Permit is based upon the Administrative Record, as required by WAC 173-303-840. The
- 38 Permittees' failure in the application, or during the Permit issuance process, to fully disclose all relevant
- 39 facts, or the Permittees' misrepresentation of any relevant facts at any time, will be grounds for the
- 40 termination or modification of this Permit and/or initiation of an enforcement action, including criminal
- 41 proceedings. The Permittees will inform Ecology of any deviation from the Permit conditions, or
- changes in the information on which the application is based, which would affect either the Permittees'
- ability to comply, or actual compliance with the applicable regulations or the Permit conditions, or which
- alters any condition of this Permit in any way.

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1 Ecology will enforce all conditions of this Permit for which the State of Washington is authorized, or

- which are "state-only" provisions (i.e., conditions broader in scope or more stringent than the federal
- 3 RCRA program). Any challenges of any Permit condition may be appealed in accordance with
- WAC 173-303-845. In the event that any Permit condition is challenged by any Permittee under
- 5 WAC 173-303-845, Ecology may stay any such Permit condition as it pertains to all Permittees, in
- 6 accordance with the same terms of any stay it grants to the challenging Permittee. If such a stay is
- granted, it will constitute a "stay by the issuing agency" within the meaning of RCW 43.21B.320(1).
- 8 This Permit has been developed to allow a step-wise permitting process of the Hanford Facility to ensure
- 9 the proper implementation of the HFFACO. In order to accomplish this, this Permit consists of six (6)
- 10 parts.
- Part I, Standard Conditions, contains conditions which are similar to those appearing in all dangerous
- waste permits.
- 13 Part II, General Facility Conditions, combines typical dangerous waste permit conditions with those
- 14 conditions intended to address issues specific to the Hanford Facility. Where appropriate, the general
- facility conditions apply to all final status dangerous waste management activities at the Facility. Where
- appropriate, the general facility conditions also address dangerous waste management activities which
- may not be directly associated with distinct TSD units, or which may be associated with many TSD units
- 18 (i.e., spill reporting, training, contingency planning, etc.). Part II also includes conditions that address
- 19 corrective action at solid waste management units and areas of concern.
- 20 Part III, Unit-Specific Conditions for Operating Units, contains those Permit requirements that apply
- 21 to each individual TSD unit operating under final status. Conditions for each TSD unit are found in a
- 22 chapter dedicated to that TSD unit. These unit-specific chapters contain references to Standard
- Conditions (Part I) and General Conditions (Part II), as well as additional requirements which are
- 24 intended to ensure that each TSD unit is operated in an efficient and environmentally protective manner.
- Additional requirements may also be added when an operating unit ceases operations and undergoes
- 26 closure.
- 27 Part IV, Unit-Specific Conditions for Corrective Action, contains those permit requirements which
- 28 apply to specific RPP units that are undergoing corrective action under the HFFACO. RPP units may
- 29 include solid waste management units and other areas of concern (i.e., releases that are not at solid waste
- 30 management units and do not constitute a solid waste management unit) that are undergoing corrective
- 31 action. For The Comprehensive Environmental Response, Conservation, and Liability Act (CERCLA)
- 32 and RCRA past practice (RPP) units identified in the HFFACO, the corrective action conditions are
- 33 structured around continued coordination with, and reliance on, the investigation and cleanup
- 34 requirements established under the HFFACO. For TSD units identified in the HFFACO, the corrective
- action conditions contemplate use of closure and post-closure processes to satisfy corrective action.
- 36 Part V, Unit-Specific Conditions for Units Undergoing Closure, contains those requirements which
- apply to those specific TSD units, included in this part, that are undergoing closure. In accordance with
- 38 Section 5.3 of the Action Plan of the HFFACO, all TSD units that undergo closure, irrespective of permit
- 39 status, will be closed pursuant to the authorized State Dangerous Waste Program in accordance with
- 40 WAC 173-303-610. Requirements for each TSD unit undergoing closure are found in a chapter
- dedicated to that TSD unit. These unit-specific chapters contain references to Standard Conditions
- 42 (Part I) and General Conditions (Part II), as well as additional requirements which are intended to ensure
- that each TSD unit is closed in an efficient and environmentally protective manner.

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Part VI, Unit-Specific Conditions for Units in Post-Closure, contains those requirements which apply

- 2 to those specific units in this part that have completed modified or landfill closure requirements, and now
- only need to meet Post-Closure Standards. As set forth in Section 5.3 of the Action Plan of the
- 4 HFFACO, certain TSD units will be permitted for post-closure care pursuant to the authorized State
- 5 Dangerous Waste Program (173-303 WAC) and the Hazardous and Solid Waste Amendments.
- 6 Requirements for each unit undergoing post-closure care are found in a chapter, within this part,
- dedicated to that unit. These unit specific chapters may contain references to Standard Conditions
- 8 (Part I) and General Conditions (Part II), as well as the unit specific conditions, all of which are intended
- 9 to ensure the unit is managed in an efficient, environmentally protective manner.

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1 DEFINITIONS

2 Except with respect to those terms specifically defined below, all definitions contained in the HFFACO,

- 3 May 1989, as amended, and in WAC 173-303-040 and other portions of Chapter 173-303 WAC are
- 4 hereby incorporated, in their entirety, by reference into this Permit. For terms defined in both
- 5 Chapter 173-303 WAC and the HFFACO, the definitions contained in Chapter 173-303 WAC will
- 6 control within this Permit. Nonetheless, this Permit is intended to be consistent with the HFFACO.
- Where terms are not defined in the regulations, the Permit, or the HFFACO, a standard dictionary
- 8 reference, or the generally accepted scientific or industrial meaning of the terms will define the meaning
- 9 associated with such terms.
- 10 As used in this Permit, words in the masculine gender also include the feminine and neuter genders,
- words in the singular include the plural, and words in the plural include the singular.
- 12 The following definitions apply throughout this Permit:
- a. The term "Area of Concern" means any area of the Facility where a release of dangerous waste or
- dangerous constituents has occurred, is occurring, is suspected to have occurred, or threatens to
- 15 occur.
- b. The term "Contractor(s)" means, unless specifically identified otherwise in this Permit, or
- 17 Attachments, Fluor Hanford, Inc. (FH), Pacific Northwest National Laboratory (PNNL), Washington
- 18 Closure Hanford LLC (WCH), CH2M HILL Hanford Group, Inc. (CH2), and Bechtel National, Inc.
- 19 (BNI).
- 20 c. The term "Critical Systems" as applied to determining whether a Permit modification is required,
- 21 means those specific portions of a TSD unit's structure, or equipment, whose failure could lead to the
- 22 release of dangerous waste into the environment, and/or systems which include processes which
- treat, transfer, store, or dispose of regulated wastes. A list identifying the critical systems of a
- specific TSD unit may be developed and included in Part III, V, and/or VI of this Permit. In
- developing a critical system list, or in the absence of a critical system list, WAC 173-303-830
- Modifications will be considered.
- d. The term "Dangerous Constituent" means any constituent identified in WAC 173-303-9905 or 40
- 28 CFR Part 264 Appendix IX, any constituent which caused a waste to be listed or designated as
- dangerous under Chapter 173-303 WAC, and any constituents within the meaning of hazardous
- 30 substance at RCW 70.105D.020(7).
- e. The term "Dangerous Waste" means those solid wastes designated under Chapter 173-303 WAC as
- dangerous or extremely hazardous waste. As used in the Permit, the phrase "dangerous waste" will
- refer to the full universe of wastes regulated by Chapter 70.105 RCW and Chapter 173-303 WAC
- 34 (including dangerous waste, hazardous waste, extremely hazardous waste, mixed waste, and acutely
- 35 hazardous waste).
- 36 f. The term "Days" means calendar days, unless specifically identified otherwise. Any submittal,
- notification, or recordkeeping requirement that would be due, under the Conditions of this Permit, on
- a Saturday, Sunday, or federal, or state holiday, will be due on the following business day, unless
- specifically stated otherwise in the Permit.

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g. The term "Director" means the Director of the Washington State Department of Ecology, or a

- designated representative. The Program Manager of the Nuclear Waste Program (with the address as
- specified on page one [1] of this Permit) is a duly authorized and designated representative of the
- 4 Director for purposes of this Permit.
- h. The term "Ecology" means the Washington State Department of Ecology (with the address as specified on page one [1] of this Permit).
- 7 i. The term "Facility" means all contiguous land, structures, other appurtenances, and improvements on
- 8 the land used for recycling, reusing, reclaiming, transferring, storing, treating, or disposing of
- dangerous waste. The legal and physical description of the Facility is set forth in Permit
- 10 Attachment 2.
- j. The term "Facility" for the purposes of corrective action under Permit Condition II.Y, means all
- 12 contiguous property under the control of the Permittees and all property within the meaning of
- "facility" at RCW 70.105D.020(3) as set forth in Permit Attachment 2.
- 14 k. The term "HFFACO" means the Hanford Federal Facility Agreement and Consent Order, as
- amended (Commonly referred to as Tri-Party Agreement [TPA]).
- 16 1. The term "Permittees" means the United States Department of Energy (owner/operator), Fluor
- Hanford Inc. (Co-operator), Washington Closure Hanford LLC (Co-operator), Bechtel National, Inc.
- 18 (Co-operator), CH2M HILL Hanford Group, Inc. (Co-operator), and Pacific Northwest National
- 19 Laboratory (Co-operator).
- 20 m. The term "Permittees" for purposes of corrective action under Permit Condition II.Y means only the
- United States Department of Energy (owner/operator).
- 22 n. The term "Raw Data" means the initial value of analog or digital instrument output, and/or manually
- 23 recorded values obtained from measurement tools or personal observation. These values are
- converted into reportable data (e.g., concentration, percent moisture) via automated procedures
- and/or manual calculations.
- o. The term "RCRA Permit" means the Dangerous Waste Portion of the RCRA Permit for the
- 27 Treatment, Storage, and Disposal of Dangerous Waste (Dangerous Waste Permit) issued by the
- Washington State Department of Ecology, pursuant to Chapter 70.105 RCW and Chapter 173-303
- 29 WAC, coupled with the HSWA Portion of the RCRA Permit for the Treatment, Storage, and
- 30 Disposal of Hazardous Waste (HSWA Permit) issued by EPA, Region 10, pursuant to 42 U.S.C.
- 31 6901 et seg. and 40 CFR Parts 124 and 270.
- p. The term "Reasonable Times" means normal business hours; hours during which production,
- treatment, storage, construction, disposal, or discharge occurs, or times when Ecology suspects a
- violation requiring immediate inspection.
- 35 q. The term "Release" means any intentional or unintentional spilling, leaking, pouring, emitting,
- emptying, discharging, injecting, pumping, escaping, leaching, dumping, or disposing of dangerous
- constituents into the environment and includes the abandonment or discarding of barrels, containers,
- and other receptacles containing dangerous waste or dangerous constituents, and includes any
- releases within the meaning of release at RCW 70.105D.020(20).

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The term "Significant Discrepancy" in regard to a manifest or shipping paper, means a discrepancy 1 between the quantity or type of dangerous waste designated on the manifest, or shipping paper, and 2 3 the quantity or type of dangerous waste a TSD unit actually receives. A significant discrepancy in quantity is a variation greater than ten (10) percent in weight for bulk quantities (e.g., tanker trucks, 4 railroad tank cars, etc.), or any variation in piece count for nonbulk quantities (i.e., any missing 5 6 container or package would be a significant discrepancy). A significant discrepancy in type is an obvious physical or chemical difference which can be discovered by inspection or waste analysis 7 8 (e.g., waste solvent substituted for waste acid).

- s. The term "Solid Waste Management Unit (SWMU)" means any discernible location at the Facility where solid wastes have been placed at any time, irrespective of whether the location was intended for the management of solid or dangerous waste, and includes any area at the Facility at which solid wastes have been routinely and systematically released (for example through spills), and includes dangerous waste treatment, storage, and disposal units.
- t. The term "Unit" or "TSD unit", as used in Parts I through VI of this Permit, means the contiguous area of land on or in which dangerous waste is placed, or the largest area in which there is a significant likelihood of mixing dangerous waste constituents in the same area. A TSD unit, for purposes of this Permit, is a subgroup of the Facility which has been identified in a Hanford Facility Dangerous Waste Part A Form.

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| 1  |   | ACRONYMS  |
|--|---|---|
| 2<br>3<br>4<br>5<br>6<br>7                   | ALARA<br>AMSF<br>APDS<br>APP<br>APT<br>ARAR | As Low As Reasonably Achievable Alkali Metal Storage Facility Ash Pit Demolition Site Used to Denote Appendix Page Numbers Area Process Trenches Applicable, Relevant, and Appropriate Requirements   |
| 8<br>9                                       | BNI<br>BPDS                                 | Bechtel National, Inc<br>Borrow Pit Demolition Site   |
| 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17 | CD/RR CERCLA  CFR CHG CIP CLARC CLP         | Chemical Disposal/Recycle Request Comprehensive Environmental Response Compensation and Liability Act of 1980 (as Amended by the Superfund Reauthorization Act of 1986) Code of Federal Regulations CH2M HILL Hanford Group, Inc. Construction Inspection Plan Cleanup Levels and Risk Calculations Contract Laboratory Program |
| 19<br>20                                     | COC<br>CPP                                  | Chemical Contaminants of Concern CERCLA Past Practice   |
| 21<br>22<br>23<br>24                         | USDOE-RL<br>USDOE-ORP<br>DQO<br>DSC         | U.S. Department of Energy, Richland Operations Office<br>U.S. Department of Energy, Office of River Protection<br>Data Quality Objective<br>Differential Scanning Colorimetry   |
| 25<br>26<br>27<br>28<br>29                   | EC<br>Ecology<br>EPA<br>ERA<br>ETF          | Emergency Coordinator Washington State Department of Ecology U.S. Environmental Protection Agency Expedited Response Action 200 Area Effluent Treatment Facility  |
| 30<br>31                                     | HFFACO<br>FH                                | Hanford Federal Facility Agreement and Consent Order Fluor Hanford, Inc.  |
| 32   | GW  | Ground Water  |
| 33<br>34<br>35                               | HPADS<br>HSWA<br>HWMA                       | Hanford Patrol Academy Demolition Site Hazardous and Solid Waste Amendments of 1984 Hazardous Waste Management Act  |
| 36<br>37                                     | ID<br>IRM                                   | Identification Interim Remedial Measure   |
| 38<br>39<br>40                               | LDR<br>LERF<br>LSFF                         | Land Disposal Restrictions Liquid Effluent Retention Facility 105-DR Large Sodium Fire Facility   |
| 41   | MTCA  | Model Toxics Control Act  |

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| 1                                | OSWER   | Office of Solid Waste and Emergency Response  |
|----------------------------------|---|---|
| 2                                | PNNL  | Pacific Northwest National Laboratory   |
| 3<br>4<br>5                      | QA<br>QAPP<br>QC                                  | Quality Assurance Quality Assurance Project Plan Quality Control  |
| 6<br>7<br>8<br>9<br>10           | RCRA<br>RCW<br>ROD<br>RPD<br>RPP                  | Resource Conservation and Recovery Act of 1976 Revised Code of Washington Record of Decision Relative Percent Difference RCRA Past Practice   |
| 11<br>12<br>13<br>14<br>15<br>16 | SAP<br>SARA<br>SCD<br>SHLWS<br>SOP<br>SWMU        | Sampling and Analysis Plan Superfund Amendments and Reauthorization Act of 1986 Security Control Devices Simulated High Level Waste Slurry Standard Operating Procedure Solid Waste Management Unit |
| 17<br>18                         | TCLP<br>TSD                                       | Toxicity Characteristic Leaching Procedure<br>Treatment, Storage, and/or Disposal   |
| 19<br>20                         | USDOE<br>U.S.C.                                   | United States Department of Energy<br>United States Code  |
| 21<br>22<br>23<br>24             | WAC<br>WAP<br>WCH<br>WTP                          | Washington Administrative Code Waste Analysis Plan Washington Closure Hanford Waste Treatment and Immobilization Plant  |
| 25                               | 183-Н   | 183-H Solar Evaporation Basins  |
| 26                               | 242-A   | 242-A Evaporator  |
| 27<br>28<br>29<br>30<br>31       | 300 APT<br>300 ASE<br>303-K<br>305-B<br>325 HWTUs | 300 Area Process Trenches<br>300 Area Solar Evaporator<br>303-K Storage Facility<br>305-B Storage Facility<br>325 Hazardous Waste Treatment Units   |
| 32                               | 616-NRDWSF  | 616 Nonradioactive Dangerous Waste Storage Facility   |

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1

# PART I - STANDARD CONDITIONS

| 2                                      | I.A   | EFFECT OF PERMIT   |
|--|-------|--|
| 3<br>4<br>5<br>6<br>7<br>8<br>9        | I.A.1 | The Permittees are authorized to treat, store, and dispose of dangerous waste in accordance with the Conditions of this Permit and in accordance with the applicable provisions of Chapter 173-303 WAC (including provisions of the Chapter as they have been applied in the HFFACO). Any treatment, storage, or disposal of dangerous waste by the Permittees at the Facility that is not authorized by this Permit, or by WAC 173-303-400 (including provisions of this regulation as they have been applied in the HFFACO), for those TSD units not subject to this Permit, and for which a Permit is required by Chapter 173-303 WAC, is prohibited. |
| 11<br>12<br>13<br>14                   |       | TSD units operating or closing under interim status will maintain interim status until that TSD unit is incorporated into Part III, V, and/or VI of this Permit, or until interim status is terminated under WAC 173-303-805(8). Interim status units will be incorporated into this Permit through the Permit modification process.   |
| 15<br>16                               | I.A.2 | The Conditions of this Permit will be applied to the Facility as defined by the Permit Applicability Matrix (Permit Attachment 3).   |
| 17<br>18                               | I.A.3 | USDOE is responsible for activities which include, but are not limited to, the overall management and operation of the Facility.   |
| 19<br>20<br>21                         |       | FH is identified as a Permittee for activities subject to the Conditions of this Permit where its agents, employees, or subcontractors have operational and/or management responsibilities and control.  |
| 22<br>23<br>24                         |       | PNNL is identified as a Permittee for activities subject to the Conditions of this Permit where its agents, employees, or subcontractors have operational and/or management responsibilities and control.  |
| 25<br>26<br>27                         |       | WCH is identified as a Permittee for activities subject to the Conditions of this Permit where its agents, employees, or subcontractors have operational and/or management responsibilities and control.   |
| 28<br>29<br>30                         |       | CHG is identified as a Permittee for activities subject to the Conditions of this Permit where its agents, employees, or subcontractors have operational and/or management responsibilities and control.   |
| 31<br>32<br>33                         |       | BNI is identified as a Permittee for activities subject to the Conditions of this Permit where its agents, employees, or subcontractors have operational and/or management responsibilities and control.   |
| 34                                     | I.A.4 | Coordination with the HFFACO   |
| 35<br>36<br>37<br>38<br>39<br>40<br>41 |       | Each TSD unit will have an application for a final status Permit or closure/post-closure plan submitted to Ecology in accordance with the schedules identified in the HFFACO Milestone M-20-00 or in accordance with WAC 173-303-830. After completion of the Permit application or closure/post-closure plan review, a final Permit decision will be made pursuant to WAC 173-303-840. Specific Conditions for each TSD unit will be incorporated into this Permit in accordance with the Class 3 Permit modification procedure identified in Permit Condition I.C.3.   |

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### I.B 1 PERSONAL AND PROPERTY RIGHTS 2 This Permit does not convey property rights of any sort, or any exclusive privilege: nor does it authorize any injury to persons or property, or any invasion of other private rights, 3 4 or any violation of federal, state, or local laws or regulations. 5 I.C PERMIT ACTIONS 6 I.C.1 Modification, Revocation, Reissuance, or Termination 7 This Permit may be modified, revoked and reissued, or terminated by Ecology for cause 8 per WAC 173-303-810(7) as specified in WAC 173-303-830(3), (4), and (5). 9 I.C.2 Filing of a Request 10 The filing of a request for a Permit modification, or revocation and reissuance, or termination, or a notification of planned changes, or anticipated noncompliance on the part 11 12 of the Permittees, will not stay any Permit condition [WAC 173-303-810(7)] except as 13 provided in WAC 173-303-810(2) under an emergency permit. I.C.3 Modifications 14 15 Except as provided otherwise by specific language in this Permit, the Permit modification procedures of WAC 173-303-830(2), (3), and (4) will apply to modifications or changes in 16 17 design or operation of the Facility, or any modification or change in dangerous waste 18 management practices covered by this Permit. As an exception, the Permittees will 19 provide notifications to Ecology required by WAC 173-303-830(4)(a)(i)(A) on a quarterly basis. Each quarterly notification will be submitted within ten (10) days of the end of the 20 21 quarter, and provide the required information for all such modification s put into effect during that reporting period. Quarterly reporting periods will be based upon the state 22 Fiscal Year. For notifications required by the Permittees to persons on the facility mailing 23 list described in WAC 173-303-830(4)(a)(i)(B), -830(4)(b)(ii), -830(4)(c)(ii), and 24 -830(4)(e)(ii)(C), use of appropriate HFFACO Community Relations Plan publications 25 and/or list servers for public involvement satisfy the notification requirements. 26 27 I.D **SEVERABILITY** 28 I.D.1 Effect of Invalidation 29 The provisions of this Permit are severable, and if any provision of this Permit, or the 30 application of any provision of this Permit to any circumstance is contested and/or held 31 invalid, the application of such provision to other circumstances and the remainder of this 32 Permit will not be affected thereby. Invalidation of any state statutory or regulatory provision which forms the basis for any Condition of this Permit does not affect the 33 validity of any other state statutory or regulatory basis for said Condition. 34 35 **I.D.2** Final Resolution 36 In the event that a Condition of this Permit is stayed for any reason, the Permittees will continue to comply with the related applicable and relevant interim status standards in 37 WAC 173-303-400 until final resolution of the stayed Condition, unless Ecology 38 39 determines compliance with the related applicable and relevant interim status standards would be technologically incompatible with compliance with other Conditions of this 40

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| 1 2  |       | Permit, which have not been stayed, or unless the HFFACO authorizes an alternative action, in which case the Permittees will comply with the HFFACO.   |
|--|-------|--|
| 3  | I.E   | DUTIES AND REQUIREMENTS  |
| 4  | I.E.1 | Duty to Comply   |
| 5<br>6<br>7<br>8<br>9  |       | The Permittees will comply with all Conditions of this Permit, except to the extent and for the duration such noncompliance is authorized by an emergency Permit issued under WAC 173-303-804. Any Permit noncompliance other than noncompliance authorized by an emergency Permit constitutes a violation of Chapter 70.105 RCW, as amended, and is grounds for enforcement action, Permit termination, modification or revocation and reissuance of the Permit, and/or denial of a Permit renewal application.   |
| 11   | I.E.2 | Compliance Not Constituting Defense  |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 |       | Compliance with the terms of this Permit does not constitute a defense to any order issued or any action brought under Section 3007, 3008, 3013, or 7003 of RCRA (42 U.S.C. Sections 6927, 6928, 6934, and 6973), Section 104, 106(a) or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) [42 U.S.C. Sections 9604, 9606(a), and 9607], as amended by the Superfund Amendments and Reauthorization Act of 1986 (42 U.S.C. 9601 et seq.), or any other federal, state, or local law governing protection of public health, or the environment; provided, however, that compliance with this Permit during its term constitutes compliance at those areas subject to this Permit for the purpose of enforcement with WAC 173-303-140, WAC 173-303-180, WAC 173-303-280 through -395, WAC 173-303-600 through -680, WAC 173-303-810, and WAC 173-303-830, except for Permit modification s and those requirements not included in the Permit that become effective by statute, or that are promulgated under 40 CFR Part 268 restricting the placement of dangerous waste in or on the land. |
| 25   | I.E.3 | Duty to Reapply  |
| 26<br>27<br>28   |       | If the Permittees wish to continue an activity regulated by this Permit after the expiration date of this Permit, the Permittees must apply for, and obtain a new Permit, in accordance with WAC 173-303-806(6).   |
| 29   | I.E.4 | Permit Expiration and Continuation   |
| 30<br>31<br>32<br>33<br>34   |       | This Permit, and all Conditions herein, will remain in effect beyond the Permit's expiration date until the effective date of the new Permit, if the Permittees have submitted a timely, complete application for renewal per WAC 173-303-806 and, through no fault of the Permittees, Ecology has not made a final Permit determination as set forth in WAC 173-303-840.  |
| 35   | I.E.5 | Need to Halt or Reduce Activity Not a Defense  |
| 36<br>37<br>38   |       | It will not be a defense in the case of an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the Conditions of this Permit.   |
| 39   | I.E.6 | Duty to Mitigate   |
| 40<br>41<br>42   |       | In the event of noncompliance with the Permit, the Permittees will take all reasonable steps to minimize releases to the environment, and will carry out such measures as are reasonable to minimize or correct adverse impacts on human health and the environment.   |

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|  | 1001151011114 | 111001. 0.5   |
|--|---------------|---|
| 1                                      | I.E.7         | Proper Operation and Maintenance  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   |               | The Permittees will at all times properly operate and maintain all facilities and systems of treatment and control, which are installed or used by the Permittees, to achieve compliance with the Conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance/quality control procedures. This provision requires the operation of backup or auxiliary facilities, or similar systems only when necessary to achieve compliance with the Conditions of the Permit. |
| 10                                     | I.E.8         | Duty to Provide Information   |
| 11<br>12<br>13<br>14<br>15             |               | The Permittees will furnish to Ecology, within a reasonable time, any relevant information which Ecology may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit, or to determine compliance with this Permit. The Permittees will also furnish to Ecology, upon request, copies of records required to be kept by this Permit.   |
| 16                                     | I.E.9         | Inspection and Entry  |
| 17<br>18                               |               | The Permittees will allow Ecology, or authorized representatives, upon the presentation of Ecology credentials, to:   |
| 19<br>20<br>21                         | I.E.9.a       | During operating hours, and at all other reasonable times, enter and inspect the Facility or any unit or area within the Facility, where regulated activities are located or conducted, or where records must be kept under the Conditions of this Permit;  |
| 22<br>23                               | I.E.9.b       | Have access to, and copy, at reasonable times, any records that must be kept under the Conditions of this Permit;   |
| 24<br>25<br>26                         | I.E.9.c       | Inspect at reasonable times any portion of the Facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,   |
| 27<br>28<br>29                         | I.E.9.d       | Sample or monitor, at reasonable times, for the purposes of assuring Permit compliance, or as otherwise authorized by state law, as amended, for substances or parameters at any location.  |
| 30                                     | I.E.10        | Monitoring and Records  |
| 31<br>32<br>33<br>34<br>35<br>36       | I.E.10.a      | Samples and measurements taken by the Permittees for the purpose of monitoring required by this Permit will be representative of the monitored activity. Sampling methods will be in accordance with WAC 173-303-110 or 40 CFR 261, unless otherwise specified in this Permit, or agreed to in writing by Ecology. Analytical methods will be as specified in the most recently published test procedure of the documents cited in WAC 173-303-110(3)(a) through (h), unless otherwise specified in this Permit, or agreed to in writing by Ecology.  |
| 37<br>38<br>39<br>40<br>41<br>42<br>43 | I.E.10.b      | The Permittees will retain at the TSD unit(s), or other locations approved by Ecology, as specified in Parts III, V, and/or VI of this Permit, records of monitoring information required for compliance with this Permit, including calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of reports and records required by this Permit, and records of data used to complete the application for this Permit for a period of at least ten (10) years from the date of the sample, measurement, report, or application, unless otherwise required for certain             |

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| 1 2                        |              | information by other Conditions of this Permit. This information may be retained on electronic media.  |
|----------------------------|--------------|--|
| 3<br>4<br>5<br>6<br>7<br>8 | I.E.10.c     | The Permittees will retain at the Facility, or other approved location, records of all monitoring and maintenance records, copies of all reports and records required by this Permit, and records of all data used to complete the application for this Permit, which are not associated with a particular TSD unit, for a period of at least ten (10) years from the date of certification of completion of post-closure care, or corrective action for the Facility, whichever is later. This information may be retained on electronic media. |
| 9<br>10<br>11<br>12        | I.E.10.d     | The record retention period may be extended by request of Ecology at any time by notification, in writing, to the Permittees, and is automatically extended during the course of any unresolved enforcement action regarding this Facility to ten (10) years beyond the conclusion of the enforcement action.  |
| 13                         | I.E.10.e     | Records of monitoring information shall include:   |
| 14                         | I.E.10.e.i   | The date, exact place and time of sampling or measurements;  |
| 15                         | I.E.10.e.ii  | The individual who performed the sampling or measurements and their affiliation;   |
| 16                         | I.E.10.e.iii | The dates the analyses were performed;   |
| 17                         | I.E.10.e.iv  | The individual(s) who performed the analyses and their affiliation;  |
| 18                         | I.E.10.e.v   | The analytical techniques or methods used; and,  |
| 19                         | I.E.10.e.vi  | The results of such analyses.  |
| 20                         | I.E.11       | Reporting Planned Changes  |
| 21<br>22<br>23             |              | The Permittees will give notice to Ecology, as soon as possible, of any planned physical alterations, or additions to the Facility subject to this Permit. Such notice does not authorize any noncompliance with, or modification of, this Permit.   |
| 24                         | I.E.12       | Certification of Construction or Modification  |
| 25<br>26                   | I.E.12.a     | The Permittees may not commence treatment, storage, or disposal of dangerous wastes in a new or modified portion of TSD units subject to this Permit until:  |
| 27<br>28<br>29<br>30       | I.E.12.b     | The Permittees have submitted to Ecology, by certified mail, overnight express mail, or hand delivery, a letter signed by the Permittees, and a registered professional engineer, stating that the TSD unit has been constructed or modified in compliance with the Conditions of this Permit; and,  |
| 31<br>32                   | I.E.12.c     | Ecology has inspected the modified or newly constructed TSD unit, and finds that it is in compliance with the Conditions of this Permit; or  |
| 33<br>34<br>35             | I.E.12.d     | Within fifteen (15) days of the date of receipt of the Permittees' letter, the Permittees have not received notice from Ecology of its intent to inspect, prior inspection is waived, and the Permittees may commence treatment, storage, and disposal of dangerous waste.   |
| 36                         | I.E.13       | Anticipated Noncompliance  |
| 37<br>38<br>39             |              | The Permittees will give at least thirty (30) days advance notice to Ecology of any planned changes in the Facility subject to this Permit, or planned activity which might result in noncompliance with Permit requirements.  |

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| 1<br>2<br>3                                  |               | If thirty (30) days advance notice is not possible, then the Permittees will give notice immediately after the Permittees become aware of the anticipated noncompliance. Such notice does not authorize any noncompliance with, or modification of, this Permit.  |
|--|---------------|---|
| 4  | I.E.14        | Transfer of Permits   |
| 5<br>6<br>7<br>8                             | I.E.14.a      | This Permit may be transferred to a new owner/operator only if it is modified, or revoked and reissued, pursuant to WAC 173-303-830(3)(b). Unit-specific portion may be transferred to a new Co-operator as a Class <sup>1</sup> 1 modification with prior approval of the Department's director.   |
| 9<br>10<br>11                                | I.E.14.b      | Before transferring ownership or operation of the Facility during its operating life, the owner/operator will notify the new owner/operator in writing, of the requirements of WAC 173-303-290(2), -600 and -806, and this Permit.  |
| 12   | I.E.15        | Immediate Reporting   |
| 13<br>14<br>15<br>16                         | I.E.15.a      | The Permittees will verbally report to Ecology any release of dangerous waste or hazardous substances, or any noncompliance with the Permit which may endanger human health or the environment. Any such information will be reported immediately after the Permittees become aware of the circumstances.   |
| 17<br>18<br>19                               | I.E.15.b      | The immediate verbal report will contain all the information needed to determine the nature and extent of any threat to human health and the environment, including the following:  |
| 20<br>21                                     | I.E.15.b.i    | Name, address, and telephone number of the Permittee responsible for the release or noncompliant activity;  |
| 22   | I.E.15.b.ii   | Name, location, and telephone number of the unit at which the release occurred;   |
| 23   | I.E.15.b.iii  | Date, time, and type of incident;   |
| 24   | I.E.15.b.iv   | Name and quantity of material(s) involved;  |
| 25   | I.E.15.b.v    | The extent of injuries, if any;   |
| 26<br>27                                     | I.E.15.b.vi   | An assessment of actual or potential hazard to the environment and human health, where this is applicable;  |
| 28   | I.E.15.b.vii  | Estimated quantity of released material that resulted from the incident; and,   |
| 29   | I.E.15.b.viii | Actions which have been undertaken to mitigate the occurrence.  |
| 30<br>31<br>32<br>33<br>34<br>35<br>36<br>37 | I.E.15.c      | The Permittees will report, in accordance with Permit Conditions I.E.15.a. and I.E.15.b., any information concerning the release, or unpermitted discharge, of any dangerous waste or hazardous substances that may cause an endangerment to drinking water supplies, or ground or surface waters, or of a release, or discharge of dangerous waste, or hazardous substances, or of a fire or explosion at the Facility, which may threaten human health or the environment. The description of the occurrence and its cause will include all information necessary to fully evaluate the situation and to develop an appropriate course of action. |
| 38<br>39<br>40<br>41                         | I.E.15.d      | For any release or noncompliance not required to be reported to Ecology immediately, a brief account must be entered within two (2) working days, into the TSD Operating Record, for a TSD unit, or into the Facility Operating Record, inspection log, or separate spill log, for non-TSD units. This account must include: the time and date of the release,  |

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| 1<br>2                                   |          | the location and cause of the release, the type and quantity of material released, and a brief description of any response actions taken or planned.   |
|--|----------|--|
| 3<br>4                                   | I.E.15.e | All releases, regardless of location of release, or quantity of release, will be controlled and mitigated, if necessary, as required by WAC 173-303-145(3).  |
| 5  | I.E.16   | Written Reporting  |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13 |          | Within fifteen (15) days after the time the Permittees become aware of the circumstances of any noncompliance with this Permit, which may endanger human health or the environment, the Permittees will provide to Ecology a written report. The written report will contain a description of the noncompliance and its cause (including the information provided in the verbal notification); the period of noncompliance including exact dates and times; the anticipated time noncompliance is expected to continue, if the noncompliance has not been corrected; corrective measures being undertaken to mitigate the situation, and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. |
| 14                                       | I.E.17   | Manifest Discrepancy Report  |
| 15<br>16<br>17<br>18<br>19               | I.E.17.a | For dangerous waste received from outside the Facility, whenever a significant discrepancy in a manifest is discovered, the Permittees will attempt to reconcile the discrepancy. If not reconciled within fifteen (15) days of discovery, the Permittees will submit a letter report in accordance with WAC 173-303-370(4), including a copy of the applicable manifest or shipping paper, to Ecology.  |
| 20<br>21<br>22<br>23<br>24               | I.E.17.b | For dangerous waste which is being transported within the Facility (i.e., shipment of onsite generated dangerous waste), whenever a significant discrepancy in the shipping papers (see Permit Condition II.Q.1.) is discovered, the Permittees will attempt to reconcile the discrepancy. If not reconciled within fifteen (15) days of discovery, the Permittees will note the discrepancy in the receiving unit's Operating Record.   |
| 25                                       | I.E.18   | Unmanifested Waste Report  |
| 26<br>27<br>28<br>29                     |          | The Permittees will follow the provisions of WAC 173-303-370 for the receipt of any dangerous waste shipment from off-site. The Permittees will also submit a report in accordance with WAC 173-303-390(1) to Ecology within fifteen (15) days of receipt of any unmanifested dangerous waste shipment received from off-site sources.   |
| 30                                       | I.E.19   | Other Noncompliance  |
| 31<br>32<br>33                           |          | The Permittees will report to Ecology all instances of noncompliance, not otherwise required to be reported elsewhere in this Permit, at the time the Annual Dangerous Waste Report is submitted.  |
| 34                                       | I.E.20   | Other Information  |
| 35<br>36<br>37<br>38                     |          | Whenever the Permittees become aware that they have failed to submit any relevant facts in a Permit application, closure plan, or post-closure plan, or submitted incorrect information in a Permit application, closure plan, or post-closure plan, or in any report to Ecology, the Permittees will promptly submit such facts or corrected information.   |

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| 1                                | I.E.21 | Reports, Notifications, and Submissions   |
|----------------------------------|--------|---|
| 2<br>3<br>4<br>5                 |        | All written reports, notifications or other submissions, which are required by this Permit to be sent, or given to the Director or Ecology, should be sent certified mail, overnight express mail, or hand delivered, to the current address and telephone number shown below. This address and telephone number may be subject to change.  |
| 6<br>7<br>8<br>9<br>10           |        | Washington State Department of Ecology Nuclear Waste Program 3100 Port of Benton Blvd Richland, Washington 99352 Telephone: (509) 372-7950  |
| 11<br>12                         |        | Telephonic and oral reports/notifications also need to be provided to Ecology's Richland Office.  |
| 13<br>14<br>15<br>16<br>17<br>18 |        | Ecology will give the Permittees written notice of a change in address or telephone number. It is the responsibility of the Permittees to ensure any required reports, notifications, or other submissions are transmitted to the addressee listed in this Condition. However, the Permittees will not be responsible for ensuring verbal and written correspondence reaches a new address or telephone number until after their receipt of Ecology's written notification. |
| 19                               | I.E.22 | Annual Report   |
| 20<br>21                         |        | The Permittees will comply with the annual reporting requirements of WAC 173-303-390(2)(a) through (e), and (g).  |
| 22                               | I.F    | SIGNATORY REQUIREMENT   |
| 23<br>24<br>25<br>26             |        | All applications, reports, or information submitted to Ecology, which require certification, will be signed and certified in accordance with WAC 173-303-810(12) and (13). All other reports required by this Permit and other information requested by Ecology will be signed in accordance with WAC 173-303-810(12).  |
| 27                               | I.G    | CONFIDENTIAL INFORMATION  |
| 28<br>29                         |        | The Permittees may declare as confidential any information required to be submitted by this Permit, at the time of submission, in accordance with WAC 173-303-810(15).  |
| 30                               | I.H    | DOCUMENTS TO BE MAINTAINED AT FACILITY SITE   |
| 31<br>32<br>33<br>34             |        | The Permittees will maintain at the Facility, or some other location approved by Ecology, the following documents and amendments, revisions, and modifications to these documents: (1) This Permit and all Attachments; and (2) The Hanford Facility Operating Record.  |
| 35<br>36<br>37                   |        | All dangerous waste Part B permit applications, post closure permit applications, and closure plan applications are maintained in the Administrative Record located at 2440 Stevens, Room 1101, Richland, WA.   |

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authorities

### PART II - GENERAL FACILITY CONDITIONS 1 2 II.A FACILITY CONTINGENCY PLAN The Permittees will immediately carry out applicable provisions of the *Hanford* 3 Π.A.1 4 Emergency Management Plan as provided in Permit Attachment 4, pursuant to WAC 173-303-360(2), whenever there is an incident meeting the criteria of Permit 5 6 Attachment 4, Section 4.2. Enforceable portions of Permit Attachment 4, Hanford Emergency Management Plan (DOE/RL-94-02) are identified in Permit Attachment 4, 7 8 Appendix A. The Permittees will comply with the requirements of WAC 173-303-350(4), as provided in 9 II.A.2 the Hanford Emergency Management Plan (Permit Attachment 4). The Hanford 10 Emergency Management Plan provides reference to the need for unit-specific contingency 11 documentation. Unit-specific contingency documentation for Part III TSD units is 12 included in Part III of this Permit. Unit-specific contingency documentation for Part V 13 and VI TSD units required by this Permit condition is maintained in the Hanford Facility 14 Operating Record, Unit-Specific files. 15 **II.A.3** The *Permittees* will review and amend, if necessary, the applicable portions of the 16 Hanford Emergency Management Plan, as provided in Permit Attachment 4, pursuant to 17 WAC 173-303-350(5), and in accordance with the provisions of WAC 173-303-830(4). 18 The Permittees will be able to demonstrate how Amendments to the applicable portions 19 are controlled. The plan will be amended within a period of time agreed upon by Ecology. 20 The Permittees will comply with the requirements of WAC 173-303-350(3) and -360(1) 21 II.A.4 concerning the emergency coordinator, except the names and home telephone numbers 22 will be on file with the single point-of-contact, phone number (509) 373-3800 or 375-2400 23 (for PNNL units) as described in the Hanford Emergency Management Plan. 24 PREPAREDNESS AND PREVENTION 25 II.BThe Permittees will equip the Facility with the equipment specified in 26 II.B.1 WAC 173-303-340(1) as specified in the Hanford Emergency Management Plan (Permit 27 Attachment 4). Unit-specific preparedness and prevention provisions are included in 28 Parts III, V, and/or VI of this Permit. 29 The Permittees will test and maintain the equipment specified in the previous Condition as 30 II.B.2 necessary to assure proper operation in the event of emergency. 31 32 II.B.3 The Permittees will maintain access to communications or alarms pursuant to WAC 173-303-340(2), as provided in the Hanford Emergency Management Plan (Permit 33 Attachment 4) and unit-specific contingency plans. 34 The Permittees will comply with WAC 173-303-340(4) and WAC 173-303-355(1) 35 II.B.4 pertaining to arrangements with local authorities. 36 Based on the arrangements with local authorities required by WAC 173-303-340(4) 37 II.B.5 documented in Permit Attachment 4, Table 3-1, the Permittees will maintain the 38 Memorandums of Understanding to comply with WAC 173-303-350(4)(b). The Hanford 39 Facility Memorandums of Understanding with local authorities provides emergency 40

planning and coordination equivalent to submittal of the contingency plan to local

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| 1  | II.C                            | PERSONNEL TRAINING  |
|--|---------------------------------|---|
| 2<br>3<br>4<br>5   | П.С.1                           | The Permittees will conduct personnel training as required by WAC 173-303-330. The Permittees will maintain documents in accordance with WAC 173-303-330(2) and (3). Training records may be maintained in the Hanford Facility Operating Record, or on electronic data storage.  |
| 6<br>7<br>8  | II.C.2                          | All Hanford Facility personnel will receive general Facility training within six (6) months of hire. This training will provide personnel with orientation of dangerous waste management activities being conducted at the Hanford Facility. This training will include:  |
| 9  | II.C.2.a                        | Description of emergency signals and appropriate personnel response;  |
| 10<br>11   | II.C.2.b                        | Identification of contacts for information regarding dangerous waste management activities;   |
| 12   | II.C.2.c                        | Introduction to waste minimization concepts;  |
| 13   | II.C.2.d                        | Identification of contact(s) for emergencies involving dangerous waste; and   |
| 14   | II.C.2.e                        | Familiarization with the applicable portions of the Hanford Emergency Management Plan.  |
| 15<br>16   | II.C.3                          | Description of training plans for personnel assigned to TSD units subject to this Permit are delineated in the unit-specific Chapters in Parts III, V, and/or VI of this Permit.  |
| 17<br>18<br>19<br>20   | П.С.4                           | The Permittees will provide the necessary training to non-Facility personnel (i.e., visitors, sub-contractors), as appropriate, for the locations of such personnel, and the activities that will be undertaken. At a minimum, this training will describe dangerous waste management hazards at the Facility.  |
|  |                                 |   |
| 21   | II.D                            | WASTE ANALYSIS  |
| 21<br>22<br>23<br>24<br>25<br>26<br>27   | <b>П.D</b><br>П.D.1             | WASTE ANALYSIS  All waste analyses required by this Permit will be conducted in accordance with a written waste analysis plan (WAP), or sampling and analysis plan (SAP). Operating TSD units will have a WAP, which will be approved through incorporation of the TSD unit into Part III of this Permit. Closing TSD units, and units in post-closure, should have a SAP and, if necessary, a WAP, which will be approved through incorporation of the TSD unit into Part V and/or VI of this Permit.  |
| 22<br>23<br>24<br>25<br>26   |                                 | All waste analyses required by this Permit will be conducted in accordance with a written waste analysis plan (WAP), or sampling and analysis plan (SAP). Operating TSD units will have a WAP, which will be approved through incorporation of the TSD unit into Part III of this Permit. Closing TSD units, and units in post-closure, should have a SAP and, if necessary, a WAP, which will be approved through incorporation of the TSD unit into   |
| 22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30                                     | П.D.1                           | All waste analyses required by this Permit will be conducted in accordance with a written waste analysis plan (WAP), or sampling and analysis plan (SAP). Operating TSD units will have a WAP, which will be approved through incorporation of the TSD unit into Part III of this Permit. Closing TSD units, and units in post-closure, should have a SAP and, if necessary, a WAP, which will be approved through incorporation of the TSD unit into Part V and/or VI of this Permit.  Until a WAP is implemented in accordance with Permit Condition II.D.1., any unit(s) identified in Parts III, V, and/or VI of this Permit, without a unit-specific WAP approved by Ecology, will not treat, store, or dispose of dangerous waste, unless specified otherwise   |
| 22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31                               | II.D.1                          | All waste analyses required by this Permit will be conducted in accordance with a written waste analysis plan (WAP), or sampling and analysis plan (SAP). Operating TSD units will have a WAP, which will be approved through incorporation of the TSD unit into Part III of this Permit. Closing TSD units, and units in post-closure, should have a SAP and, if necessary, a WAP, which will be approved through incorporation of the TSD unit into Part V and/or VI of this Permit.  Until a WAP is implemented in accordance with Permit Condition II.D.1., any unit(s) identified in Parts III, V, and/or VI of this Permit, without a unit-specific WAP approved by Ecology, will not treat, store, or dispose of dangerous waste, unless specified otherwise by Ecology in writing.  |
| 22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35       | II.D.1 II.D.2                   | All waste analyses required by this Permit will be conducted in accordance with a written waste analysis plan (WAP), or sampling and analysis plan (SAP). Operating TSD units will have a WAP, which will be approved through incorporation of the TSD unit into Part III of this Permit. Closing TSD units, and units in post-closure, should have a SAP and, if necessary, a WAP, which will be approved through incorporation of the TSD unit into Part V and/or VI of this Permit.  Until a WAP is implemented in accordance with Permit Condition II.D.1., any unit(s) identified in Parts III, V, and/or VI of this Permit, without a unit-specific WAP approved by Ecology, will not treat, store, or dispose of dangerous waste, unless specified otherwise by Ecology in writing.  Each TSD unit WAP will include:  The parameters for which each dangerous waste will be analyzed, and the rationale for selecting these parameters; (i.e., how analysis for these parameters will provide sufficient information on the waste properties to comply with WAC 173-303-300(1), (2), (3), and      |
| 22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36 | II.D.1 II.D.2 II.D.3 II.D.3.a.i | All waste analyses required by this Permit will be conducted in accordance with a written waste analysis plan (WAP), or sampling and analysis plan (SAP). Operating TSD units will have a WAP, which will be approved through incorporation of the TSD unit into Part III of this Permit. Closing TSD units, and units in post-closure, should have a SAP and, if necessary, a WAP, which will be approved through incorporation of the TSD unit into Part V and/or VI of this Permit.  Until a WAP is implemented in accordance with Permit Condition II.D.1., any unit(s) identified in Parts III, V, and/or VI of this Permit, without a unit-specific WAP approved by Ecology, will not treat, store, or dispose of dangerous waste, unless specified otherwise by Ecology in writing.  Each TSD unit WAP will include:  The parameters for which each dangerous waste will be analyzed, and the rationale for selecting these parameters; (i.e., how analysis for these parameters will provide sufficient information on the waste properties to comply with WAC 173-303-300(1), (2), (3), and (4); |

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| 1                          | II.D.3.a.v      | The waste analyses which generators have agreed to supply;   |
|----------------------------|-----------------|--|
| 2<br>3<br>4<br>5           | II.D.3.a.vi     | Where applicable, the methods for meeting the additional waste analysis requirements for specific waste management methods, as specified in WAC 173-303-140(4)(b), 173-303-395(1), 173-303-630 through 173-303-670, and 40 CFR 264.1034, 264.1063, 284(a), and 268.7, for final status facilities;   |
| 6<br>7<br>8                | II.D.3.a.vii    | For off-site facilities, the procedures for confirming that each dangerous waste received matches the identity of the waste specified on the accompanying manifest, or shipping paper. This includes at least:   |
| 9<br>10<br>11              |                 | <ul><li>A. The procedure for identifying each waste movement at the Facility; and,</li><li>B. The method for obtaining a representative sample of the waste to be identified, if the identification method includes sampling.</li></ul>  |
| 12<br>13<br>14             | II.D.3.a.viii   | For surface impoundments exempted from Land Disposal Restrictions (LDR) under 40 CFR 268.4(a), incorporated by reference in WAC 173-303-140(2), the procedures and schedules for:  |
| 15                         | II.D.3.a.viii.a | The sampling of impoundment contents;  |
| 16                         | II.D.3.a.viii.b | The analysis of test data; and   |
| 17<br>18                   | II.D.3.a.viii.c | The annual removal of residues that are not delisted under 40 CFR 260.22, or which exhibit a characteristic of hazardous waste and either;   |
| 19<br>20<br>21<br>22<br>23 |                 | <ol> <li>Do not meet applicable treatment standards of 40 CFR Part 268, Subpart D; or</li> <li>Where no treatment standards have been established:         <ol> <li>Such residues are prohibited from land disposal under 40 CFR 268.32, or RCRA section 3004(d); or</li> <li>Such residues are prohibited from land disposal under 40 CFR 268.33(f); and</li> </ol> </li> </ol> |
| 24<br>25<br>26             | II.D.3.a.ix     | For off-site facilities, the procedures for confirming that each dangerous waste received matches the identity of the waste specified on the accompanying manifest, or shipping paper. This includes, at least:  |
| 27                         | II.D.3.a.ix.a   | The procedure for identifying each waste movement at the Facility; and   |
| 28<br>29                   | II.D.3.a.ix.b   | The method for obtaining a representative sample of the waste to be identified, if the identification method includes sampling.  |
| 30<br>31<br>32<br>33       | II.D.4          | Should waste analysis be required by this Permit at a location on the Facility, other than at a TSD unit, a SAP will be maintained by the Permittees, and made available upon request from Ecology. Any SAP required by this Permit, not associated with a particular TSD unit, will include the elements of Permit Conditions II.D.3.a.i through II.D.3.a.iv.                   |
|                            |                 |  |

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**OUALITY ASSURANCE/OUALITY CONTROL** H.E 1 All WAPs and SAPs required by this Permit will include a quality assurance/quality 2 Π.Ε.1 control (QA/QC) plan, or equivalent, to document all monitoring procedures to ensure that 3 all information, data, and resulting decisions are technically sound, statistically valid, and 4 properly documented in accordance with HFFACO Action Plan §6.5, Quality Assurance, 5 and reported/made available in accordance with HFFACO Action Plan §9.6, Data Access 6 and Delivery Requirements. 7 The level of QA/QC for the collection, preservation, transportation, and analysis of each 8 II.E.2 sample required for implementation of this Permit may be based upon an Ecology-9 approved DQO for the sample. These DQOs will be approved by Ecology in writing or 10 through incorporation of unit plans and Permits into Parts III, V, and/or VI of this Permit. 11 GROUND WATER AND VADOSE ZONE MONITORING II.F 12 The Permittees will comply with the ground water monitoring requirements of 13 WAC 173-303-645. This Condition will apply only to those wells the Permittees use for 14 the ground water monitoring programs applicable to the TSD units incorporated into 15 Parts III, V, and/or VI of this Permit. Where releases from TSD units subject to this 16 Permit have been documented or confirmed by investigation, or where vadose zone 17 monitoring is proposed for integration with ground water monitoring, the Permittees will 18 evaluate the applicability of vadose zone monitoring. The Permittees will consult with 19 Ecology regarding the implementation of these requirements. If agreed to by Ecology, 20 integration of ground water and vadose zone monitoring, for reasons other than this 21 Permit, may be accommodated by this Permit. Results from other investigation activities 22 will be used whenever possible to supplement and/or replace sampling required by this 23 Permit. 24 Purgewater Management 25 II.F.1 Purgewater will be handled in accordance with the requirements set forth in Permit 26 Attachment 5, Purgewater Management Plan. 27 Well Remediation and Abandonment 28 II.F.2 The Permittees will inspect the integrity of active resource protection wells as defined by 29 II.F.2.a WAC 173-160-030, subject to this Permit, at least once every five (5) years. These 30 inspections will be recorded in the Operating Record. The Permittees will prepare and 31 maintain a plan and schedule by January 26, 1995, specifying the schedule and technical 32 standards for this program. The Permittees will provide a copy of this plan upon the 33 request of Ecology. 34 The Permittees will evaluate resource protection wells subject to this Permit according to II.F.2.b 35 Sections 4.0 and 5.0 of the Hanford Well Maintenance Inspection Plan (Permit 36 Attachment 6) and the Policy on Remediation of Existing Wells and Acceptance Criteria 37 for RCRA and CERCLA, June 1990 (Permit Attachment 7), to determine if a well has a 38 potential use as a qualified well. The Permittees will abandon or remediate unusable wells 39 according to the requirements of Chapter 18.104 RCW, Chapter 173-160 WAC, and 40 Chapter 173-162 WAC to ensure that the integrity of wells subject to this Permit is 41 maintained. The time for this remediation will be specified in Parts III, V, and/or VI of 42 this Permit. 43

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| 1 2  | II.F.2.c | Ecology will receive notice in writing at least seventy-two (72) hours before the Permittees remediate (excluding maintenance activities), or abandon any well subject to this Permit.  |
|--|----------|---|
| 3<br>4<br>5<br>6   | II.F.2.d | For wells subject to this Permit, the Permittees will achieve full compliance with Chapter 173-160 WAC and Chapter 18.104 RCW consistent with a rolling five (5) year schedule agreed to by Ecology and the Permittees. This process will be completed by the year 2012.  |
| 7  | П.F.3    | Well Construction   |
| 8<br>9   |          | All wells constructed pursuant to this Permit will be constructed in compliance with Chapter 173-160 WAC.   |
| 10   | II.G     | SITING CRITERIA   |
| 11<br>12   |          | The Permittees will comply with the applicable notice of intent and siting criteria of WAC 173-303-281 and WAC 173-303-282, respectively.   |
| 13   | II.H     | RECORDKEEPING AND REPORTING   |
| 14<br>15   |          | The provisions of WAC 173-303-620 are not applicable to the Hanford Facility because the USDOE is both owner and operator of the Hanford Facility. WAC 173-303-620(1)(c).   |
| 16   | II.I     | FACILITY OPERATING RECORD   |
| 17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27 | II.I.1   | The Permittees will maintain a written Facility Operating Record until ten (10) years after post-closure, or corrective action is complete and certified for the Facility, whichever is later. Except as specifically provided otherwise in this Permit, the Permittees will also record all information referenced in this Permit in the Facility Operating Record within seven (7) working days after the information becomes available. A TSD unit-specific Operating Record will be maintained for each TSD unit at a location identified in Parts III, V, and VI of this Permit. This information may be maintained on electronic media. Each TSD unit-specific Operating Record will be included by reference in the Facility Operating Record. Information required in each TSD unit-specific Operating Record is identified on a unit-by-unit basis in Part III, V, or VI of this Permit. The Facility Operating Record will include, but not be limited to, the following information. |
| 28<br>29<br>30<br>31<br>32<br>33<br>34<br>35                   | II.I.1.a | A description of the system(s) currently utilized to identify and map solid waste management units and their locations. The description of the system(s) is required to include an identification of on-site access to the system's data, and an on-site contact name and telephone number. In addition to, or as part of, this system(s), the Permittees will also maintain a list identifying active ninety (90)-day waste storage areas, and dangerous waste satellite accumulation areas and their locations. The list will identify the location, the predominant waste types managed at the area, and a date identifying when the list was compiled. Maps will be provided by the Permittees upon request by Ecology;   |
| 36   | II.I.1.b | Records and results of waste analyses required by WAC 173-303-300;  |
| 37<br>38<br>39<br>40   | II.I.1.c | An identification of the system(s) currently utilized to generate Occurrence Reports. The identification of the system(s) is required to include a description, an identification of an on-site location of hard-copy Occurrence Reports, an identification of on-site access to the system's data, and an on-site contact name and telephone number;   |
| 41   | II.I.1.d | Copies of all unmanifested waste reports;   |

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| 1<br>2<br>3                            | П.І.1.е  | The Hanford Emergency Management Plan, as well as summary reports, and details of all incidents that require implementing the contingency plan, as specified in WAC 173-303-360(2)(k);  |
|--|----------|---|
| 4<br>5<br>6<br>7                       | П.І.1.f  | An identification of the system(s) currently utilized and being developed to record personnel training records and to develop training plans. The identification of the system(s) is required to include a description, an identification of on-site access to the system's data, and an on-site contact name and telephone number;   |
| 8<br>9<br>10                           | II.I.1.g | Preparedness and prevention arrangements made pursuant to WAC 173-303-340(4) and documentation of refusal by state or local authorities that have declined to enter into agreements in accordance with WAC 173-303-340(5);  |
| 11                                     | П.І.1.h  | Reserved Condition;   |
| 12<br>13<br>14                         | П.І.1.і  | An identification and description of the report containing closure and post-closure cost estimates required by Permit Conditions II.H.1. and II.H.2. The identification will provide the on-site location and document number of the report;  |
| 15<br>16<br>17                         | П.І.1.ј  | Documentation (e.g., waste profile sheets) of all dangerous waste transported to or from any TSD unit subject to this Permit. This documentation will be maintained in the receiving unit's Operating Record from the time the waste is received;   |
| 18<br>19<br>20<br>21<br>22             | П.І.1.k  | An identification of the system(s) currently utilized to cross-reference waste locations to specific manifest document numbers. The identification of the system(s) is required to include a thorough description, an identification of an on-site location of a hard-copy data report, an identification of on-site access to the system's data, and an on-site contact name and telephone number;   |
| 23                                     | П.І.1.1  | Reserved Permit Condition;  |
| 24                                     | II.I.1.m | Annual Reports required by this Permit;   |
| 25<br>26<br>27<br>28<br>29<br>30<br>31 | II.I.1.n | An identification of all systems currently utilized to record monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation. The identification of systems will include a description of the systems. The descriptions will include a confirmation that the criteria of Permit Condition I.E.10.e. is provided by the utilization of the system. The identification of the systems will also include an identification of on-site access to the system's data, an on-site contact name and telephone number; |
| 32                                     | II.I.1.0 | Reserved Permit Condition;  |
| 33<br>34                               | П.І.1.р  | Summaries of all records of ground water corrective action required by WAC 173-303-645;   |
| 35<br>36<br>37<br>38<br>39<br>40       | II.I.1.q | An identification of the system(s) currently being utilized and being developed to evaluate compliance with the Conditions of this Permit and with Chapter 173-303 WAC. The identification of the system(s) will include a description of the system(s), an identification of on-site access to the system's data, and an on-site contact name and telephone number. The description of the system(s) will also include a definition of which portion(s) of the system(s) is accessible to Ecology;   |
| 41                                     | II.I.1.r | All deed notifications required by this Permit (to be included by reference);   |

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| 1                                | II.I.1.s | All inspection reports required by this Permit; and  |
|----------------------------------|----------|--|
| 2 3                              | II.I.1.t | All other reports as required by this Permit, including design change documentation and nonconformance documentation.  |
| 4                                | II.J     | FACILITY CLOSURE   |
| 5<br>6<br>7<br>8<br>9            | П.Ј.1    | Final closure of the Hanford Facility will be achieved when closure activities for all TSD units have been completed, as specified in Parts III, IV, V, or VI of this Permit. Completion of these activities will be documented using either certifications of closure, in accordance with WAC 173-303-610(6), or certifications of completion of post-closure care, in accordance with WAC 173-303-610(11).   |
| 10<br>11                         | II.J.2   | The Permittees will close all TSD units as specified in Parts III, V, and/or VI of this Permit.  |
| 12<br>13<br>14<br>15<br>16       | П.Ј.3    | The Permittees will submit a written notification of, or request for, a Permit modification in accordance with the provisions of WAC 173-303-610(3)(b), whenever there is a change in operating plans, facility design, or the approved closure plan. The written notification or request must include a copy of the amended closure plan for review, or approval, by Ecology.   |
| 17                               | II.J.4   | The Permittees will close the Facility in a manner that:   |
| 18                               | II.J.4.a | Minimizes the need for further maintenance;  |
| 19<br>20<br>21<br>22             | П.Ј.4.b  | Controls, minimizes or eliminates, to the extent necessary to protect human health and the environment, post-closure escape of dangerous waste, dangerous constituents, leachate, contaminated run-off, or dangerous waste decomposition products, to the ground, surface water, ground water, or the atmosphere; and  |
| 23.<br>24                        | П.Ј.4.с  | Returns the land to the appearance and use of surrounding land areas to the degree possible, given the nature of the previous dangerous waste activity.  |
| 25                               | II.J.4.d | Meets the requirements of WAC 173-303-610(2)(b).   |
| 26                               | II.K     | SOIL/GROUND WATER CLOSURE PERFORMANCE STANDARDS  |
| 27<br>28<br>29<br>30             | II.K.1   | For purposes of Permit Condition II.K, the term "clean closure" shall mean the status of a TSD unit at the Facility which has been closed to the cleanup levels prescribed by WAC 173-303-610(2)(b), provided certification of such closure has been accepted by Ecology.  |
| 31<br>32<br>33<br>34<br>35       | II.K.2   | The Permittees may close a TSD unit to background levels as defined in Ecology approved Hanford Site Background Documents, if background concentrations exceed the levels prescribed by Permit Condition II.K.1. Closure to these levels, provided the Permittees comply with all other closure requirements for a TSD unit as identified in Parts III, V, and/or VI of this Permit, shall be deemed as "clean closure".   |
| 36<br>37<br>38<br>39<br>40<br>41 | П.К.3    | Except for those TSD units identified in Permit Conditions II.K.1, II.K.2, or II.K.4, the Permittees may close a TSD unit to a cleanup level specified under Method C of Chapter 173-340 WAC. Closure of a TSD unit to these levels, provided the Permittees comply with all other closure requirements for the TSD unit as specified in Parts III, V, and/or VI of the Permit, and provided the Permittees comply with Permit Conditions II.K.3.a. through II.K.3.c, shall be deemed as a "modified closure". |

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| 1<br>2<br>3<br>4<br>5  | П.К.З.а  | For "modified closures", the Permittees shall provide institutional controls in accordance with WAC 173-340-440 which restricts access to the TSD unit for a minimum of five (5) years following completion of closure. The specific details and duration of institutional controls shall be specified in Parts III, V, and/or VI of this Permit for a particular TSD unit.  |
|--|----------|--|
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19 | II.K.3.b | For "modified closures", the Permittees shall provide periodic assessments of the TSD unit to determine the effectiveness of the closure. The specific details of the periodic assessments shall be specified in Parts III, V, and/or VI of this Permit. The periodic assessments shall include, as a minimum, a compliance monitoring plan in accordance with WAC 173-340-410 that will address the assessment requirements on a unit-by-unit basis. At least one (1) assessment activity shall take place after a period of five (5) years from the completion of closure, which will demonstrate whether the soils and ground water have been maintained at or below the allowed concentrations as specified in Parts III, V, or VI of this Permit. Should the required assessment activities identify contamination above the allowable limits as specified in Parts III, V, and/or VI, the TSD unit must be further remediated, or the requirements of II.K.4. must be followed. Should the required assessment activities demonstrate that contamination has diminished, or remained the same, the Permittees may request that Ecology reduce, or eliminate the assessment activities and/or institutional controls. |
| 20<br>21   | II.K.3.c | For "modified closures", the Permittees shall specify the particular activities required by this Condition in a Post-Closure Permit application.   |
| 22<br>23<br>24<br>25   | II.K.4   | Any TSD unit for which Permit Conditions II.K.1, II.K.2, or II.K.3, are not chosen as the closure option, closing the TSD unit as a landfill may be selected. Closure and post-closure of the TSD unit as a landfill, must follow the procedures and requirements specified in WAC 173-303-610.  |
| 26<br>27<br>28<br>29<br>30   | П.К.5    | The cleanup option selected shall be specified in Parts III, V, and/or VI of this Permit, and shall be chosen with consideration of the potential future site use for that TSD unit/area. Definitions contained within Chapter 173-340 WAC shall apply to Permit Condition II.K. Where definitions are not otherwise provided by this Permit, the HFFACO, or Chapter 173-303 WAC.  |
| 31<br>32<br>33<br>34   | П.К.6    | Deviations from a TSD unit closure plan required by unforeseen circumstances encountered during closure activities, which do not impact the overall closure strategy, but provide equivalent results, shall be documented in the TSD unit-specific Operating Record and made available to Ecology upon request, or during the course of an inspection.   |
| 35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43                           | II.K.7   | Where agreed to by Ecology, integration of other statutorily or regulatory mandated cleanups may be accommodated by this Permit. Results from other cleanup investigation activities shall be used whenever possible to supplement and/or replace TSD unit closure investigation activities. All, or appropriate parts of, multipurpose cleanup and closure documents can be incorporated into this Permit through the Permit modification process. Cleanup and closures conducted under any statutory authority, with oversight by either Ecology or the EPA, which meet the equivalent of the technical requirements of Permit Conditions II.K.1. through II.K.4., may be considered as satisfying the requirements of this Permit.  |
| 44   | II.L     | DESIGN AND OPERATION OF THE FACILITY   |
| 45   | П.L.1    | Proper Design and Construction   |

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| 1<br>2<br>3<br>4   |          | The Permittees will design, construct, maintain, and operate the Facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous substances to air, soil, ground water, or surface water, which could threaten human health, or the environment.   |
|--|----------|--|
| 5  | II.L.2   | Design Changes, Nonconformance, and As-Built Drawings  |
| 6<br>7<br>8<br>9<br>10<br>11   | II.L.2.a | After completing the Permit modification process in Permit Condition I.C.3, the Permittees will conduct all construction subject to this Permit in accordance with the approved designs, plans and specifications that are required by this Permit, unless authorized otherwise in Permit Conditions II.L.2.b or II.L.2.c. For purposes of Permit Conditions II.L.2.b and II.L.2.c, an Ecology construction inspector, or TSD unit manager, are designated representatives of Ecology.   |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | II.L.2.b | During construction of a project subject to this Permit, changes to the approved designs, plans and specifications will be formally documented. All design change documentation will be maintained in the TSD unit-specific Operating Record and will be made available to Ecology upon request or during the course of an inspection. The Permittees will provide copies of design change documentation affecting any critical system to Ecology within five (5) working days of initiating the design change documentation. Identification of critical systems will be included by the Permittees in each TSD unit-specific dangerous waste Permit application, closure plan or Permit modification, as appropriate. Ecology will review an design change documentation modifying a critical system, and inform the Permittees in writing within two (2) working days, whether the proposed design change documentation, when issued, will require a Class 1, 2, or 3 Permit modification. If after two (2) working days Ecology has not responded, it will be deemed as acceptance of the design change documentation by Ecology. |
| 25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37 | II.L.2.c | During construction of a project subject to this Permit, any work completed which does not meet or exceed the standards of the approved design, plans and specifications will be formally documented with nonconformance documentation. All nonconformance documentation will be maintained in the TSD unit-specific Operating Record and will be made available to Ecology upon request, or during the course of an inspection. The Permittees will provide copies of nonconformance documentation affecting any critical system to Ecology within five (5) working days after identification of the nonconformance. Ecology will review nonconformance documentation affecting a critical system and inform the Permittees in writing, within two (2) working days, whether a Permit modification is required for any nonconformance, and whether prior approval is required from Ecology before work proceeds, which affects the nonconforming item. If Ecology does not respond within two (2) working days, it will be deemed as acceptance and no Permit modification will be required.  |
| 38<br>39<br>40<br>41<br>42<br>43<br>44                                     | II.L.2.d | Upon completion of a construction project subject to this Permit, the Permittees will produce as-built drawings of the project which incorporate the design and construction modifications resulting from all project design change documentation and nonconformance documentation, as well as modifications made pursuant to WAC 173-303-830. The Permittees will place the drawings into the Operating Record within twelve (12) months of completing construction, or within an alternate period of time specified in a unit-specific Permit Condition in Part III or V of this Permit.   |
| 45   | II.L.2.e | Facility Compliance  |

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| 1<br>2<br>3  |                      | The Permittees in receiving, storing, transferring, handling, treating, processing, and disposing of dangerous waste, will design, operate, and/or maintain the Facility in compliance with all applicable federal, state, and local laws and regulations.  |
|--|----------------------|---|
| 4  | II.M                 | SECURITY  |
| 5<br>6<br>7  |                      | The Permittees will comply with the security provisions of WAC 173-303-310. The Permittees may comply with the requirements of WAC 173-303-310(2) on a unit-by-unit basis.  |
| 8  | II.N                 | RECEIPT OF DANGEROUS WASTES GENERATED OFF-SITE  |
| 9  | II.N.1               | Receipt of Off-Site Waste   |
| 10<br>11<br>12   |                      | The Permittees will comply with Permit Conditions II.N.2 and II.N.3 for any dangerous wastes which are received from sources outside the United States, or from off-site generators.  |
| 13   | II.N.2               | Waste from Sources Outside the United States  |
| 14<br>15   |                      | The Permittees will meet the requirements of WAC 173-303-290(1) for waste received from outside the United States.  |
| 16   | II.N.3               | Notice to Generator   |
| 17<br>18<br>19<br>20<br>21                               |                      | For waste received from off-site sources (except where the owner/operator is also the generator), the Permittees will inform the generator in writing that they have the appropriate Permits for, and will accept, the waste the generator is shipping, as required by WAC 173-303-290(3). The Permittees will keep a copy of this written notice as part of the TSD unit-specific Operating Record.  |
| 22   | II.O                 | GENERAL INSPECTION REQUIREMENTS   |
| 23<br>24<br>25<br>26                                     | II.O.1               | The Permittees will inspect the Facility to prevent malfunctions and deterioration, operator errors, and discharges, which may cause or lead to the release of dangerous waste  |
| 27<br>28   |                      | constituents to the environment, or threaten human health. Inspections must be conducted in accordance with the provisions of WAC 173-303-320(2). In addition to the TSD unit inspections specified in Parts III, V, and/or VI, the following inspections will also be conducted:   |
| 27   | II.O.1.a             | constituents to the environment, or threaten human health. Inspections must be conducted in accordance with the provisions of WAC 173-303-320(2). In addition to the TSD unit inspections specified in Parts III, V, and/or VI, the following inspections will also be  |
| 27<br>28   | II.O.1.a<br>II.O.1.b | constituents to the environment, or threaten human health. Inspections must be conducted in accordance with the provisions of WAC 173-303-320(2). In addition to the TSD unit inspections specified in Parts III, V, and/or VI, the following inspections will also be conducted:   |
| 27<br>28<br>29<br>30<br>31                               |                      | constituents to the environment, or threaten human health. Inspections must be conducted in accordance with the provisions of WAC 173-303-320(2). In addition to the TSD unit inspections specified in Parts III, V, and/or VI, the following inspections will also be conducted:  The 100, 200 East, 200 West, 300, and 400 areas will be inspected annually.  The Permittees will inspect the banks of the Columbia River, contained within the Facility boundary, once a year. The inspection will be performed from the river, by boat, and the   |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35       | П.О.1.Ь              | constituents to the environment, or threaten human health. Inspections must be conducted in accordance with the provisions of WAC 173-303-320(2). In addition to the TSD unit inspections specified in Parts III, V, and/or VI, the following inspections will also be conducted:  The 100, 200 East, 200 West, 300, and 400 areas will be inspected annually.  The Permittees will inspect the banks of the Columbia River, contained within the Facility boundary, once a year. The inspection will be performed from the river, by boat, and the inspectors will follow the criteria in Permit Condition II.O.1.c.  The Permittees will visually inspect the areas identified in Permit Conditions II.O.1.a and II.O.1.b for malfunctions, deterioration, operator errors, and discharges which may cause or lead to the release of dangerous waste constituents to the environment, or that threaten  |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36 | II.O.1.b             | constituents to the environment, or threaten human health. Inspections must be conducted in accordance with the provisions of WAC 173-303-320(2). In addition to the TSD unit inspections specified in Parts III, V, and/or VI, the following inspections will also be conducted:  The 100, 200 East, 200 West, 300, and 400 areas will be inspected annually.  The Permittees will inspect the banks of the Columbia River, contained within the Facility boundary, once a year. The inspection will be performed from the river, by boat, and the inspectors will follow the criteria in Permit Condition II.O.1.c.  The Permittees will visually inspect the areas identified in Permit Conditions II.O.1.a and II.O.1.b for malfunctions, deterioration, operator errors, and discharges which may cause or lead to the release of dangerous waste constituents to the environment, or that threaten human health. Specific items to be noted are as follows: |

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| 1<br>2                                       | II.O.1.c.iv<br>II.O.1.c.v | Temporary or permanent activities that could generate an uncontrolled waste form; and Unpermitted waste discharges.  |
|--|---------------------------|--|
| 3<br>4<br>5                                  | II.O.1.d                  | The Permittees will notify Ecology at least seven (7) days prior to conducting these inspections in order to allow representatives of Ecology to be present during the inspections.  |
| 6<br>7                                       | II.O.2                    | If the inspection by the Permittees, conducted pursuant to Permit Condition II.O.1., reveals any problems, the Permittees will take remedial action on a schedule agreed to by Ecology.  |
| 8<br>9                                       | II.O.3                    | The inspection of high radiation areas will be addressed on a case-by-case basis in either Part III of this Permit, or prior to the inspections required in Permit Condition II.O.1.   |
| 10   | II.P                      | MANIFEST SYSTEM  |
| 11<br>12                                     | II.P.1                    | The Permittees will comply with the manifest requirements of WAC 173-303-370 for waste received from off-site and WAC 173-303-180 for waste shipped off-site.  |
| 13<br>14<br>15<br>16<br>17<br>18<br>19<br>20 | П.Р.2                     | Transportation of dangerous wastes along roadways, if such routes are not closed to general public access at the time of transport, can be manifested pursuant to an alternate tracking system as allowed by WAC 173-303-180(6). The alternate tracking system can be a paper system or an electronic system. The roadways addressed by this condition are a public or private right-of-way within or along the border of contiguous property where the movement is under control of the USDOE. The alternate tracking system will consist of documentation between the offering Hanford Facility location and the receiving Hanford Facility location containing the following information: |
| 21   | II.P.2.a                  | Hanford Facility offeror name, location, and telephone number;   |
| 22   | П.Р.2.b                   | Hanford Facility receiver name, location, and telephone number;  |
| 23   | II.P.2.c                  | Description of waste;  |
| 24   | II.P.2.d                  | Number and type of containers;   |
| 25   | II.P.2.e                  | Total quantity of waste;   |
| 26   | II.P.2.f                  | Unit volume/weight;  |
| 27   | II.P.2.g                  | Dangerous waste number(s) or U.S. Department of Transportation hazard class; and   |
| 28   | II.P.2.h                  | Special handling instructions including emergency contacts.  |
| 29<br>30                                     | II.P.3                    | The Hanford Facility offeror and receiver will resolve any discrepancies of information found related to Permit Conditions II.P.2.a through II.P.2.h.  |
| 31<br>32<br>33<br>34                         | II.P.4                    | If the discrepancies cannot be resolved at the Hanford Facility receiving location, a new Hanford Facility receiver location will be agreed upon, or the dangerous waste will be returned to the offeror location. The documentation accompanying the movement of dangerous waste will be updated to reflect the new receiving location.   |
| 35   | II.Q                      | ON-SITE TRANSPORTATION   |
| 36<br>37<br>38                               | II.Q.1                    | Documentation must accompany any on-site dangerous waste which is transported to or from any TSD unit subject to this Permit, through or within the 600 Area, unless the roadway is closed to general public access at the time of shipment. Waste transported by  |

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| 1<br>2<br>3                |          | rail or by pipeline is exempt from this Condition. This documentation will include the following information, unless other unit-specified provisions are designated in Part III or V of this Permit:  |
|----------------------------|----------|---|
| 4                          | II.Q.1.a | Generator's name, location, and telephone number;   |
| 5                          | II.Q.1.b | Receiving TSD unit's name, location, and telephone number;  |
| 6                          | II.Q.1.c | Description of waste;   |
| 7                          | II.Q.1.d | Number and type of containers;  |
| 8                          | II.Q.1.e | Total quantity of waste;  |
| 9                          | II.Q.1.f | Unit volume/weight;   |
| 10                         | II.Q.1.g | Dangerous waste number(s); and  |
| 11                         | II.Q.1.h | Any special handling instructions.  |
| 12<br>13<br>14             | II.Q.2   | All non-containerized solid, dangerous waste transported to or from TSD units, subject to this Permit, will be covered to minimize the potential for material to escape during transport.   |
| 15                         | II.R     | EQUIVALENT MATERIALS  |
| 16<br>17<br>18<br>19<br>20 | П.R.1    | The Permittees may substitute an equivalent or superior product for any equipment or materials specified in this Permit. Use of equivalent or superior products will not be considered a modification of this Permit. A substitution will not be considered equivalent unless it is at least as effective as the original equipment or materials in protecting human health and the environment.                        |
| 21<br>22<br>23<br>24       | II.R.2   | The Permittees will place in the Operating Record (within seven [7] days after the change is put into effect) the substitution documentation, accompanied by a narrative explanation, and the date the substitution became effective. Ecology may judge the soundness of the substitution.  |
| 25<br>26<br>27<br>28<br>29 | II.R.3   | If Ecology determines that a substitution was not equivalent to the original, it will notify the Permittees that the Permittees' claim of equivalency has been denied, of the reasons for the denial, and that the original material or equipment must be used. If the product substitution is denied, the Permittees will comply with the original approved product specification, or find an acceptable substitution. |
| 30                         | III.S    | LAND DISPOSAL RESTRICTIONS (LDR)  |
| 31<br>32                   |          | Unless specifically identified otherwise in the HFFACO, the Permittees will comply with all LDR requirements as set forth in WAC 173-303-140.   |
| 33                         | 11.7     | ACCESS AND INFORMATION  |
| 34<br>35<br>36             |          | To the extent that work required by this Permit must be done on property not owned or controlled by the Permittees, the Permittees must utilize their best efforts to obtain access and information at these locations.   |
| 37                         | II.U     | MAPPING OF UNDERGROUND PIPING   |
| 38                         | II.U.1   | Reserved.   |
| 39                         | II.U.2   | Reserved.   |
|                            |          |   |

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The Permittees will maintain piping maps for existing, newly identified, and/or new 1 II.U.3 2 dangerous waste underground pipelines (including active, inactive, and abandoned pipelines, which contain or contained dangerous waste subject to the provisions of 3 4 Chapter 173-303 WAC) at the Hanford Facility. The maps will identify the origin, 5 destination, direction of flow, size, depth and type (i.e., reinforced concrete, stainless steel, 6 cast iron, etc.), of each pipe, and the location of their diversion boxes, valve pits, seal pots, 7 catch tanks, receiver tanks, and pumps, and utilize Washington State Plane Coordinates, 8 NAD 83(91), meters. If the type of pipe material is not documented on existing drawings, 9 the most probable material type will be provided. The maps will also identify whether the 10 pipe is active, inactive, or abandoned. The age of all pipes requiring identification 11 pursuant to this Condition will be documented in an Attachment to the submittal. If the age cannot be documented, an estimate of the age of the pipe will be provided based upon 12 best engineering judgment. These maps need not include the pipes within a fenced tank 13 farm or within a building/structure. These maps will be compiled using documented 14 QA/QC control methods and procedures outlined in DOE/RL-96-50, Hanford Facility 15 RCRA Permit Mapping and Marking of Dangerous Waste Underground Pipelines Report, 16 September 1996. These maps and any Attachments will be maintained in the Facility 17 Operating Record and be updated annually as required by Permit Condition II.U.4. 18 19 Permittees will maintain current all maps required by Permit Condition II.U.3. These II.U.4 20 maps will be updated to incorporate new or revised information available by March 30th of each year. By September 30th of each year, the Permittees will submit to Ecology a list 21 of maps that have been updated. The updated maps (including any Attachments) and the 22 annual list submitted to Ecology will be maintained in the Facility Operating Record. 23 MARKING OF UNDERGROUND PIPING 24 II.V The Permittees will maintain marking of underground pipelines located outside the 25 200 East, 200 West, 300, 400, 100N, and 100K Areas. These pipelines will be marked at 26 the point they pass beneath an area fence, at their origin and destination, at any point they 27 28 cross an improved road, and every 100 meters along the pipeline corridor where practicable. The markers will be labeled with a sign that reads "Buried Dangerous Waste 29 30 Pipe" and will be visible from a distance of fifteen (15) meters. II.W OTHER PERMITS AND/OR APPROVALS 31 32 The Permittees will be responsible for obtaining all other applicable federal, state, and II.W.1 local permits authorizing the development and operation of the Facility. To the extent that 33 work required by this Permit must be done under a permit and/or approval pursuant to 34 other regulatory authority, the Permittees will use their best efforts to obtain such permits. 35 36 II.W.2 All other permits related to dangerous waste management activities are severable and 37 enforceable through the permitting authority under which they are issued. All air emissions from units subject to this Permit will comply with all applicable state and 38 II.W.3 federal regulations pertaining to air emission controls, including but not limited to, 39 40 Chapter 173-400 WAC, General Regulations for Air Pollution Sources; Chapter 173-460 WAC, Controls for New Sources of Toxic Air Pollutants; and Chapter 173-480 WAC, 41

Ambient Air Quality Standards and Emission Limits for Radionuclides.

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## 1 II.X SCHEDULE EXTENSIONS 2 II.X.1 The Permittees will notify Ecology in writing, as soon as possible, of any deviations or expected deviations, from the schedules of this Permit. The Permittees will include with 3 the notification all information supporting their claim that they have used best efforts to 4 5 meet the required schedules. If Ecology determines that the Permittees have made best 6 efforts to meet the schedules of this Permit, Ecology will notify the Permittees in writing 7 by certified mail, that the Permittees have been granted an extension. Such an extension 8 will not require a Permit modification under Permit Condition I.C.3. Should Ecology 9 determine that the Permittees have not made best efforts to meet the schedules of this 10 Permit, Ecology may take such action as deemed necessary. 11 Copies of all correspondence regarding schedule extensions will be kept in the Operating 12 Record. Any schedule extension granted through the approved change control process identified in 13 II.X.2 14. the HFFACO will be incorporated into this Permit. Such a revision will not require a 15 Permit modification under Permit Condition I.C.3. II.Y 16 CORRECTIVE ACTION In accordance with WAC 173-303-646 and WAC 173-303-815(2)(b)(ii), the Permittee 17 must conduct corrective action, as necessary to protect human health and the environment, 18 for releases of dangerous waste and dangerous constituents from solid waste management 19 units and areas of concern at the facility, including releases that have migrated beyond the 20 facility boundary. The Permittee may be required to implement measures within the 21 22 facility to address releases, which have migrated beyond the facility's boundary. As specified in Permit Conditions II.Y.1.g, II.Y.2.a.iii and II.Y.a.ii, the Permittee's right to 23 challenge Ecology's authority to impose corrective action with respect to radionuclides, 24 CERCLA Past Practice (CPP) Units (as identified under Permit Condition II.Y.2.a.) and 25 26 selected solid waste management units not covered by the HFFACO at property currently subleased to US Ecology, Inc. (as identified under Permit Condition II.Y.3.a.i.), is reserved 27 until such time as Ecology chooses to impose corrective action in accordance with the 28 Permit modification procedures of WAC 173-303-830. 29 II.Y.1 Compliance with Chapter 173-340 WAC 30 In accordance with WAC 173-303-646, the Permittee must conduct corrective action "as 31 32 necessary to protect human health and the environment". To ensure that corrective action will be conducted as necessary to protect human health and the environment, except as 33 provided in Permit Condition II.Y.2, the Permittee must conduct corrective action in a 34 35 manner that complies with the following provisions of Chapter 173-340 WAC: As necessary to select a cleanup action in accordance with WAC 173-340-360 and 36 II.Y.1.a WAC 173-340-350 State Remedial Investigation and Feasibility Study; 37 38 WAC 173-340-360 Selection of Cleanup Actions; II.Y.1.b 39 II.Y.1.c WAC 173-340-400 Cleanup Actions; WAC 173-340-410 Compliance Monitoring Requirements; 40 II.Y.1.d 41 II.Y.1.e WAC 173-340-420 Periodic Site Reviews;

WAC 173-340-440 Institutional Controls; and

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II.Y.1.f

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| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8                                 | II.Y.1.g     | WAC 173-340-700 through -760 Cleanup Standards, except that to the extent that Ecology seeks to impose corrective action with respect to radionuclides regulated under the provisions of the Atomic Energy Act, as amended, 42 U.S.C. § 2011 et seq (AEA), the Permittee may challenge Ecology's authority to impose such corrective action through a timely appeal of the permit modification issued by Ecology without argument from Ecology that such right has been waived by a failure to fully litigate that issue through an appeal taken within thirty (30) days of the issuance of this permit, and without argument from the Permittee that such requirement fails to satisfy a cause for Permit modification under WAC 173-303-830(3)(a).  |
|--|--------------|---|
| 10<br>11   | II.Y.2       | Acceptance of Work Under Other Authorities or Programs and Integration with the HFFACO.   |
| 12<br>13<br>14<br>15<br>16   |              | Corrective action is necessary to protect human health and the environment for all units identified in Appendix B and Appendix C of the HFFACO. Notwithstanding Permit Condition II.Y.1, work under other cleanup authorities or programs, including work under the HFFACO, may be used to satisfy corrective action requirements, provided it protects human health and the environment.   |
| 17<br>18<br>19<br>20<br>21   | II.Y.2.a     | For units identified in Appendix C of the FFAOC, as amended, as CERCLA Past Practice (CPP) Units, Ecology accepts work under the HFFACO, as amended, and under the CERCLA program, as satisfying corrective action requirements to the extent provided for in, and subject to the reservations and requirements of, Permit Conditions II.Y.2.a.i through II.Y.2.a.iv.   |
| 22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31             | II.Y.2.a.i   | For any unit identified in Appendix C of the HFFACO as a CPP unit, the Permittee must comply with the requirements and schedules related to investigation and cleanup of the CPP unit(s) developed and approved under the HFFACO, as amended. The requirements and schedules related to investigation and cleanup of CPP units currently in place under the HFFACO, as amended, and in the future developed and approved under the FFAOC, as amended, are incorporated into this Permit by this reference and apply under this Permit as if they were fully set forth herein. If the Permittee is not in compliance with requirements of the HFFACO, as amended, that relate to investigation or cleanup of CPP unit(s), Ecology may take action to independently enforce the requirements as corrective action requirements under this Permit.   |
| 32<br>33<br>34   | II.Y.2.a.ii  | For any unit identified in Appendix C of the HFFACO as a CPP unit, in the case of an interim ROD, a final decision about satisfaction of corrective action requirements will be made in the context of issuance of a final ROD.   |
| 35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46 | II.Y.2.a.iii | If EPA and Ecology, after exhausting the dispute resolution process under Section XXVI of the HFFACO, cannot agree on requirements related to investigation or cleanup of CPP unit(s), Ecology will notify the Permittee, in writing, of the disagreement and impose, in accordance with the Permit Modification Procedures of WAC 173-303-830, a requirement for the Permittee to conduct corrective action for the subject units(s) in accordance with Permit Condition II.Y.1. The Permittee may challenge Ecology's authority to impose such corrective action requirements through a timely appeal of such permit modification, without argument from Ecology that the Permittee's right to raise such challenge has been waived by a failure to fully litigate that issue through an appeal taken within thirty (30) days of the issuance of this permit, and without argument from the Permittee that such requirement fails to satisfy a cause for Permit modification under WAC 173-303-830(3)(a). Within sixty (60) days of receipt of the above permit |

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| 1<br>2<br>3<br>4<br>5<br>6<br>7                                      |              | modification, or within some other reasonable period of time agreed to by Ecology and the Permittee, the Permittee must submit for Ecology review and approval, a plan to conduct corrective action in accordance with Permit Condition II.Y.1 for the subject unit(s). The Permittee's plan may include a request that Ecology evaluate work under another authority or program. Approved corrective action plans under this Condition will be incorporated into this Permit in accordance with the Permit Modification Procedures of WAC 173-303-830.   |
|--|--------------|---|
| 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15                           | II.Y.2.a.iv  | The Permittee must maintain information on corrective action for CPP units covered by the HFFACO in accordance with Sections 9.0 and 10.0 of the HFFACO Action Plan. In addition, the Permittee must maintain all reports and other information developed in whole, or in part, to implement the requirements of Permit Condition II.Y.2.a, including reports of investigations and all raw data, in the Facility Operating Record in accordance with Permit Condition II.I. Information that is maintained in the Hanford Site Administrative Record may be incorporated by reference into the Facility Operating Record.  |
| 16<br>17<br>18<br>19   | П.Ү.2.b      | For units identified in Appendix C of the HFFACO, as amended, as RPP units, Ecology accepts work under the HFFACO, as amended, as satisfying corrective action requirements to the extent provided for, and subject to the reservations and requirements of, Permit Conditions II.Y.2.b.i through II.Y.2.b.iv.  |
| 20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31 | II.Y.2.b.i   | For any unit identified in Appendix C of the HFFACO, as amended, as RPP unit, until a Permit modification is complete under Permit Condition II.Y.2.b.iii., the Permittee must comply with the requirements and schedules related to investigation and cleanup of RPP units developed and approved under the HFFACO, as amended. The requirements and schedules related to investigation and cleanup of RPP units currently in place under the HFFACO, as amended, and in the future developed and approved under the HFFACO, as amended, are incorporated into this Permit by this reference and apply under this Permit as if they were fully set forth herein. Until a permit modification is complete under Permit Condition II.Y.2.b.iii., if the Permittee is not in compliance with requirements and schedules related to investigation and cleanup of RPP units developed and approved under the HFFACO, as amended, Ecology may take action to independently enforce the requirements as corrective action requirements under this Permit. |
| 32<br>33<br>34<br>35   | II.Y.2.b.ii  | When the Permittee submits a corrective measures study for an individual RPP unit or a group of RPP units, the Permittee must, at the same time, recommend a remedy for the unit(s). The remedy recommendation must contain all the elements of a draft cleanup action plan under WAC 173-340-360(10).  |
| 36<br>37<br>38<br>39<br>40<br>41<br>42<br>43                         | II.Y.2.b.iii | After considering the Permittees' corrective measures study and remedy recommendation, Ecology will make a tentative remedy selection decision and publish the decision for public review and comment. Public review and comment may be accomplished by publishing the tentative decision as a draft Permit under WAC 173-303-840(10), or by a method that provides an equivalent opportunity for public review and participation. Following public review and comment, Ecology will make a final remedy selection decision. Final remedy decisions will be incorporated into the Permit using the Permit Modification Procedures of WAC 173-303-830.   |
| 44<br>45<br>46   | II.Y.2.b.iv  | The Permittee must maintain information on corrective action for RPP units covered by the HFFACO, as amended, in accordance with Sections 9.0 and 10.0 of the HFFACO Action Plan. In addition, the Permittee must maintain all reports and other information  |

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|                                  | 100 (101011 1 (0) |   |
|----------------------------------|-------------------|---|
| 1<br>2<br>3<br>4<br>5            |                   | developed in whole, or in part, to implement the requirements of Permit Condition II.Y.2.b, including reports of investigations and all raw data, in the Facility Operating Record in accordance with Permit Condition II.I. Information that is maintained in the Hanford Site Administrative Record may be incorporated into the Facility Operating Record by reference.  |
| 6<br>7<br>8                      | II.Y.2.c          | For each TSD unit or group of units, when the Permittee submits a certification of closure or a certification of completion of post-closure care, or at an earlier time agreed to by Ecology and the Permittee, the Permittee must, at the same time, either:   |
| 9<br>10                          | II.Y.2.c.i        | Document that the activities completed under closure and/or post-closure satisfy the requirements for corrective action; or   |
| 11<br>12<br>13<br>14<br>15<br>16 | II.Y.2.c.ii       | If the activities completed under closure and/or post-closure care do not satisfy corrective action requirements, identify the remaining corrective action requirements and the schedule under which they will be satisfied, if remaining corrective action requirements will be satisfied by work developed and carried out under the HFFACO provisions for RPP units or CPP units, a reference to the appropriate RPP or CPP process and schedule will suffice. |
| 17<br>18<br>19<br>20             | II.Y.2.c.iii      | Ecology will make final decisions as to whether the work completed under closure and/or post-closure care satisfies corrective action, specify any unit-specific corrective action requirements, and incorporate the decision into this Permit in accordance with the Permit Modification Procedures of WAC 173-303-830.  |
| 21<br>22                         | II.Y.2.d          | Notwithstanding any other condition in this Permit, Ecology may directly exercise any administrative or judicial remedy under the following circumstances:  |
| 23<br>24                         | II.Y.2.d.i        | Any discharge or release of dangerous waste, or dangerous constituents, which are not addressed by the HFFACO, as amended;  |
| 25<br>26<br>27                   | II.Y.2.d.ii       | Discovery of new information regarding dangerous constituents or dangerous waste management, including but not limited to, information about releases of dangerous waste or dangerous constituents which are not addressed under the HFFACO, as amended; or   |
| 28<br>29<br>30                   | II.Y.2.d.iii      | A determination that action beyond the terms of the HFFACO, as amended, is necessary to abate an imminent and substantial endangerment to the public health, or welfare, or to the environment.   |
| 31                               | II.Y.3            | Releases of Dangerous Waste or Dangerous Constituents Not Covered By the HFFACO   |
| 32                               | II.Y.3.a          | US Ecology  |
| 33<br>34<br>35<br>36<br>37       | П.Ү.З.а.і         | <ul> <li>The following solid waste management units are not covered by the HFFACO:</li> <li>A. US Ecology, Inc., SWMU 1: Chemical Trench;</li> <li>B. US Ecology, Inc., SWMU 2-13: Low-level radioactive waste trenches 1 through 11A; and</li> <li>C. US Ecology, Inc., SWMU 17: Underground resin tank.</li> </ul>  |
| 38<br>39<br>40<br>41<br>42       | II.Y.3.a.ii       | Selected solid waste management units identified in Permit Condition II.Y.3.a.i are currently being investigated by US Ecology in accordance with the <i>Comprehensive Investigation US Ecology – Hanford Operations Workplan</i> . Following completion of this investigation and any closure required of such solid waste management unit under the authority of the Washington State Department of Health, or within one (1) year of the                       |

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effective date of this Permit Condition, whichever is earlier, Ecology will make a tentative 1 2 decision as to whether additional investigation or cleanup is necessary to protect human 3 health or the environment for the solid waste management units identified in Permit 4 Condition II.Y.3.a.i, and publish that decision as a draft permit in accordance with 5 WAC 173-303-840(10). Following the associated public comment period, and 6 consideration of any public comments received during the public comment period, Ecology will publish as final permit conditions under WAC 173-303-840(8) either: 7 8 A. a decision that corrective action is not necessary to protect human health or the 9 environment: B. an extension to the schedule established under Permit Condition II.1.Y.3.a.ii; or 10 C. a decision that corrective action in accordance with Permit Condition II.Y.1 is 11 12 necessary to protect human health or the environment. 13 II.Y.3.a.iii If Ecology decides under Permit Condition II.Y.3.a.ii that corrective action is necessary to protect human health or the environment, the Permittee may challenge Ecology's authority 14 to impose such corrective action requirements through a timely appeal of such permit 15 16 modification, without argument from Ecology that the right to raise such challenge has been waived by a failure to fully litigate that issue through an appeal taken within thirty 17 (30) days of the issuance of this permit, and with argument from the Permittee that such 18 requirement fails to satisfy a cause for permit modification under 19 WAC 173-303-830(3)(a). Within one hundred and eighty (180) days of receipt of the 20 above Permit modification, the Permittee must submit, for Ecology review and approval, a 21 plan to conduct corrective action in accordance with Permit Condition II.Y.1. Approved 22 corrective action plans under this condition will be incorporated into this Permit in 23 24 accordance with the Permit Modification Procedures of WAC 173-303-830. 25 II.Y.3.b Newly Identified Solid Waste Management Units and Newly Identified Releases of Dangerous Waste or Dangerous Constituents. 26 The Permittee must notify Ecology of all newly-identified solid waste management units 27 and all newly-identified areas of concern at the Facility. For purposes of this condition, a 28 'newly-identified' solid waste management unit or a 'newly-identified' area of concern is 29 30 a unit or area not identified in the HFFACO, as amended, on the effective date of this condition and not identified by Permit Condition II.Y.3.a. Notification to Ecology must be 31 32 in writing and must include, for each newly-identified unit or area, the information required by WAC 173-303-806(4)(a)(xxiii) and WAC 173-303-806(4)(a)(xxiv). 33 Notification to Ecology must occur at least once every calendar year, in January, and must 34 include all units and areas newly identified since the last notification, except that if a 35 newly identified unit or area may present an imminent and substantial endangerment to 36 human health or the environment, notification must occur within five (5) days of 37 38 identification of the unit or area. If information required by WAC 173-303-806(4)(a)(xxiii) or WAC 173-303-806(4)(a)(xxiv) is already included in the Waste 39 Information Data System, it may be incorporated by reference into the required 40 notification. 41 42  $\Pi Z$ WASTE MINIMIZATION 43 II.Z.1In accordance with WAC 173-303-380(1)(q), and Section 3005(h) of RCRA, 42 U.S.C. 6925(h), the Permittee must place a certification in the Hanford Facility Operating Record, 44 45 Unit-Specific Files on an annual basis that:

A program is in place to reduce the volume and toxicity of hazardous waste generated to 1 II.Z.1.a the degree determined by the Permittee to be economically practicable; and, 2 The proposed method of treatment, storage or disposal is that practicable method currently 3 II.Z.1.b available to the Permittee, which minimizes the present and future threat to human health 4 5 and the environment. 6 The Permittee will maintain each such certification of waste minimization in the operating II.Z.27 record as required by Permit Condition II.I.1. 8 II.AA AIR EMISSION STANDARDS FOR PROCESS VENTS 9 The Permittees will comply with applicable requirements of WAC 173-303-690 (40 CFR 264, Subpart AA) for process vents associated with Part III units performing 10 specific separations processes unless exempted by WAC 173-303-690(1)(d). Threshold 11 12 limits applied to process vents potentially requiring emission controls subject to WAC 173-303-690 are evaluated based on the summation of applicable emission sources 13 14 for the entire Hanford Facility. When the summed emissions fall below threshold limits in 40 CFR 264.1032(a)(1), no emission control devices are required. If threshold limits in 15 40 CFR 264.1032(a)(1) are predicted to be exceeded, the Permittees will notify Ecology to 16 determine the appropriate course of action. Unit-specific information is contained in 17 18 Part III of the Permit for applicable units.

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## II.BB AIR EMISSION STANDARDS FOR EQUIPMENT LEAKS

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The Permittees will comply with applicable requirements of WAC 173-303-691

(40 CFR 264, Subpart BB) for certain equipment leaks associated with Part III units unless exempted by WAC 173-303-691(1)(e) or (f) and identified in accordance with 40 CFR264.1064(g)(5) or (6). Air emission standards apply to equipment that contacts or contains hazardous wastes with organic concentrations of at least 10 percent by weight.

Unit-specific information is contained in Part III of the Permit for applicable units.

## 26 II.CC AIR EMISSION STANDARDS FOR TANKS, SURFACE IMPOUNDMENTS, AND CONTAINERS

The Permittees shall comply with applicable requirements of WAC 173-303-692 (40 CFR264, Subpart CC) for containers, tanks, and surface impoundment areas associated with Part III units unless exempted by WAC 173-303-692(1)(b). Unit-specific information is contained in Part III of the Permit for applicable units.

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## PART III - UNIT-SPECIFIC CONDITIONS FOR FINAL STATUS OPERATIONS

| 2      | CHAPTER 1  |
|--------|--|
| 3<br>4 | 616 Nonradioactive Dangerous Waste Storage Facility (Clean Closed, September 5, 2001)  |
| 5<br>5 | The 616 Nonradioactive Dangerous Waste Storage Facility (NRDWSF) was an active storage unit for dangerous wastes that are shipped to off-site commercial treatment or disposal facilities. |
| 7<br>3 | This TSD unit was clean closed September 5, 2001, in accordance with the approved Closure Plan contained in Permit Attachment 8, which was retired during Revision 6 of this Permit.       |

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**CHAPTER 2** 1 2 305-B Storage Facility 3 The 305-B Storage Facility (305-B) is an active storage unit for dangerous wastes and mixed wastes. These wastes are derived primarily from research and development activities and laboratory activities in 4 the 300 Area. This Chapter sets forth the operating Conditions for this TSD unit. 5 COMPLIANCE WITH APPROVED PERMIT APPLICATION 6 III.2.A. The Permittees shall comply with all the requirements set forth in Permit Attachment 18, including all 7 Class 1 modifications specified below, and the Amendments specified in Permit Condition III.2.B. 8 Enforceable portions of the permit application have been incorporated in Permit Attachment 18 and are 9 identified as follows. All subsections, figures, and tables included in these portions are also enforceable, 10 unless stated otherwise: 11 12 PERMIT ATTACHMENT 18: Part A Dangerous Waste Permit, Revision 3, from Class 1 modification dated 13 Chapter 1.0 June 30, 2006 14 Unit Description, from Class 1 modification dated March 31, 2005 15 Chapter 2.0 Waste Analysis Plan, from Class 1 modification dated March 31, 2005 Chapter 3.0 16 Process Information, from Class 1 modification dated December 31, 2003 17 Chapter 4.0 Procedures to Prevent Hazards, from Class 1 modification dated March 31, 2005 18 Chapter 6.0 Building Emergency Procedure, from Class 1 modification dated June 30, 2006 19 Chapter 7.0 Personnel Training, from Class 1 modification dated September 30, 2003 20 Chapter 8.0 Closure and Post-Closure Requirements, from Class 1 modification dated June 30, 2006 21 Chapter 11.0 Reporting and Recordkeeping, from Class 1 modification dated August 2004 22 Chapter 12.0 Other Relevant Laws, from Class 1 modification dated August 2004 23 Chapter 13.0 AMENDMENTS TO THE APPROVED PERMIT APPLICATION 24 Ш.2.В. For all shipments of dangerous waste to or from this TSD unit, except for shipments 25 III.2.B.1 which occur wholly within the 300 Area, the Permittees shall comply with Permit 26 Conditions II.P and II.Q of this Permit regarding dangerous waste shipment manifesting 27 and transportation. 28

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**CHAPTER 3** 1 2 **PUREX Storage Tunnels** 3 The PUREX Storage Tunnels are mixed waste storage units consisting of two underground railroad tunnels: Tunnel Number 1, designated 218-E-14, and Tunnel Number 2, designated 218-E-15. This 4 Chapter sets forth the operating Conditions for this TSD unit. 5 COMPLIANCE WITH APPROVED PERMIT APPLICATION 6 **Ⅲ.3.A** The Permittees shall comply with all requirements set forth in Permit Attachment 28, including all 7 Class 1 modifications, and the Amendments specified in Permit Condition III.3.B, if any exist. All 8 subsections, figures, and tables included in these portions are enforceable. 9 PERMIT ATTACHMENT 28: 10 Part A Dangerous Waste Permit, Revision 6, from Class 1 modification dated May 2005 11 Chapter 1.0 Unit Description, from Class 1 modification dated May 2005 12 Chapter 2.0 13 Chapter 3.0 Waste Analysis Plan, from Class 1 modification dated September 30, 2004 14 Chapter 4.0 Process Information, from Class 1 modification dated August 2004 Procedures to Prevent Hazards, from Class 1 modification dated August 2004 15 Chapter 6.0 Contingency Plan, dated May 1998, from Class 1 modification dated December 31, 2005 16 Chapter 7.0 Personnel Training, from Class 1 modification dated September 30, 2002 17 Chapter 8.0 Waste Minimization, from Class 1 modification dated September 30, 2002 18 Chapter 10.0 Closure and Financial Assurance, from Class 1 modification dated August 2004 19 Chapter 11.0 Reporting and Recordkeeping, from Class 1 modification dated August 2004 20 Chapter 12.0 Other Federal and State Laws, from Class 1 modification dated August 2004 Chapter 13.0 21 AMENDMENTS TO THE APPROVED PERMIT APPLICATION 22 III.3.B (None Required) 23

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**CHAPTER 4** 1 Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility 2 This Chapter sets forth the operating Conditions for the Liquid Effluent Retention Facility (LERF) and 3 the Effluent Treatment Facility (ETF). 4 COMPLIANCE WITH APPROVED PERMIT APPLICATION 5 Ш.4.А The Permittees shall comply with all requirements set forth in Permit Attachment 34, including the 6 Amendments specified in Permit Condition III.4.B, if any exist. Enforceable portions of the application 7 are listed below; all subsections, figures, and tables included in these portions are also enforceable, 8 unless stated otherwise: 9 PERMIT ATTACHMENT 34: 10 Part A Dangerous Waste Permit, Revision 0, from Class 1 modification dated May 2005 11 Chapter 1.0 12 Chapter 2.0 Unit Description from Class 1 modification dated March 2003 Waste Analysis Plan, from Class 1 modification dated August 2004 13 Chapter 3.0 14 Chapter 4.0 Process Information, from Class 1 modification dated December 31, 2004 Ground Water Monitoring (PNNL-11620 and WHC-SD-EN-AP-024), from Class 1 15 Chapter 5.0 modification dated March 2003 16 Procedures to Prevent Hazards, from Class 1 modification dated December 31, 2003 Chapter 6.0 17 18 Chapter 7.0 Contingency Plan, from Class 1 modification dated August 2004 Personnel Training, from Class 1 modification dated March 2003 19 Chapter 8.0 Closure and Financial Assurance, from Class 1 modification dated June 30, 2005 20 Chapter 11.0 Reporting and Recordkeeping, from Class 1 modification dated August 2004 21 Chapter 12.0 Other Federal and State Laws, from Class 1 modification dated August 2004 22 Chapter 13.0 AMENDMENTS TO THE APPROVED PERMIT APPLICATION 23 III.4.B. Interim status Groundwater Monitoring Plan for the 200 East Area Liquid Effluent 24 Ⅲ.4.B.1. Treatment Facility, WHC-SD-EN-AP-024 25

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document.

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1 **CHAPTER 5** 2 242-A Evaporator 3 The 242-A Evaporator is a mixed waste treatment and storage unit consisting of a conventional forcedcirculation, vacuum evaporation system to concentrate mixed-waste solutions. This Chapter sets forth 4 5 the operating Conditions for this TSD unit. 6 III.5.A. COMPLIANCE WITH APPROVED PERMIT APPLICATION 7 The Permittees shall comply with all requirements set forth in Permit Attachment 35, including all Class 1 modification, and the Amendments specified in Permit Condition III.5.B, if any exist. All subsections, 8 9 figures, and tables included in these portions are enforceable): PERMIT ATTACHMENT 35: 10 Part A Dangerous Waste Permit, Revision 9, from Class 1 modification dated May 2005 11 Chapter 1.0 Chapter 2.0 Unit Description, from Class 1 modification dated August 2004 12 13 Chapter 3.0 Waste Analysis Plan, from Class 1 modification dated December 31, 2005 Process Information, from Class 1 modification dated December 31, 2005 14 Chapter 4.0 15 Chapter 6.0 Procedures to Prevent Hazards, from Class 1 modification dated December 31, 2005 Chapter 7.0 Contingency Plan, from Class 1 modification dated June 30, 2004 16 Personnel Training, from Class 1 modification dated December 31, 2002 17 Chapter 8.0 Closure and Financial Assurance, from Class 1 modification dated December 31, 2005 18 Chapter 11.0 19 Chapter 12.0 Reporting and Recordkeeping, from Class 1 modification dated August 2004 20 Chapter 13.0 Other Federal and State Laws, from Class 1 modification dated August 2004 Appendix 4B 21 The 242-A Evaporator/Crystallizer Tank System Integrity Assessment Report, from Class 1 modification dated December 31, 2002 22 23 III.5.B AMENDMENTS TO THE APPROVED PERMIT APPLICATION Portions of DOE/RL-94-02 that are not made enforceable by inclusion in the 24 III.5.B.1 applicability matrix for that document, are not made enforceable by reference in this 25

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**CHAPTER 6** 1 325 Hazardous Waste Treatment Units 2 The 325 Hazardous Waste Treatment Units (325 HWTUs) consist of the Shielded Analytical Laboratory 3 (SAL) which includes Rooms 32, 200, 201, 202, and 203; and the Hazardous Waste Treatment Unit 4 (HWTU) encompassing Rooms 520, 524 and 528 of the 325 Building. 5 COMPLIANCE WITH APPROVED PERMIT APPLICATION 6 П.6.А. The Permittees shall comply with all requirements set forth in Permit Attachment 36, including the 7 Amendments specified in Permit Condition III.6.B. All subsections, figures, and tables included in these 8 portions are enforceable. 9 PERMIT ATTACHMENT 36: 10 Part A Dangerous Waste Permit, Revision 5, from Class 1 modification dated May 2005 11 Chapter 1.0 Unit Description, from Class 1 modification dated June 30, 2005 12 Chapter 2.0 Waste Analysis Plan, from Class 1 modification dated June 30, 2005 Chapter 3.0 13 Process Information, from Class 1 modification dated June 30, 2005 14 Chapter 4.0 Procedures to Prevent Hazards, from Class 1 modification dated June 30, 2005 15 Chapter 6.0 Contingency Plan, from Class 1 modification dated June 30, 2005 Chapter 7.0 16 Personnel Training, from Class 1 modification dated September 30, 2003 17 Chapter 8.0 Closure and Financial Assurance, from Class 1 modification dated August 2004 Chapter 11.0 18 Reporting and Recordkeeping, from Class 1 modification dated August 2004 19 Chapter 12.0 Other Federal and State Laws, from Class 1 modification dated August 2004 20 Chapter 13.0 AMENDMENTS TO THE APPROVED PERMIT APPLICATION 21 III.6.B 22 III.6.B.1 Portions of DOE/RL-94-02 that are not made enforceable by inclusion in the applicability matrix for that document, are not made enforceable by reference in this 23 document. 24

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